



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1403

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✓		‡ Compare and order fractions and decimals. (5.2B)
	✓		Identify odd and even numbers. (5.3B)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗		Solve practical problems involving whole numbers. (5.4)
	✗		Solve practical problems involving decimals. (5.5B)
	✗		Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✓		‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
	✓		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✓		Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✗		Determine perimeter, area, and volume from given information. (5.8A)
	✗		Identify the parts of a circle. (5.10)
	✓		Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✓		Estimate and measure an object using metric units. (5.9B)
	✓		Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✓		Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✗		Determine possible outcomes of a single event. (5.15)
	✗		Determine possible outcomes of a single event. (5.15)
	✗		Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✗		Calculate the mean, median, mode, or range for a set of data. (5.17D)
	✗		Identify, describe, and extend numerical patterns. (5.18)
	✓		Identify, describe, and extend numerical patterns. (5.18)
	✓		Write an equation containing a variable, given a practical situation. (5.19B)
	✓		Write an equation containing a variable, given a practical situation. (5.19B)



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Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1280

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Use the place value structure to read and write whole numbers. (4.1A)
		✗	Compare and order whole numbers. (4.1B)
		✗	Identify odd and even numbers. (5.3B)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	‡ Estimate or determine sums, differences, or products of whole numbers. (4.4B)
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving decimals. (5.5B)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✗	Solve practical problems involving metric units. (5.9B)
		✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Identify equivalent measures using appropriate units for liquid volume. (4.8C)
		✓	Identify equivalent measures using appropriate units for length. (4.8C)
		✓	Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
		✗	Describe mean as a fair share. (5.17B)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✗	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
		✓	Construct a bar graph or line graph to represent a data set. (4.14A)
		✓	Compare different representations of the same set of data. (4.14C)
		✓	Identify a variable or describe an unknown quantity using a variable. (5.19A)



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Student Detail by Question Report

Student Test Details

Administration State Testing Identifier	Test Name Grade	Division School	Delivery Group
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Vertical Scaled Score: 1383

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✓		‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✓		Round decimal numbers. (5.1)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving decimals. (5.5B)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Identify the parts of a circle. (5.10)
		✗	Classify angles as right, acute, straight, or obtuse. (5.12)
		✓	Determine perimeter, area, and volume from given information. (5.8A)
		✓	Estimate and measure an object using metric units. (5.9B)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
		✗	Describe mean as a fair share. (5.17B)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Identify a variable or describe an unknown quantity using a variable. (5.19A)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)



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Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1556

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category

**Number and Number Sense**

Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Identify prime and composite numbers. (5.3A)
✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category

**Computation and Estimation**

Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving whole numbers. (5.4)
✓	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)

Reporting Category

**Measurement and Geometry**

Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine perimeter, area, and volume from given information. (5.8A)
✗	Determine perimeter, area, and volume from given information. (5.8A)
✗	Identify the parts of a circle. (5.10)
✗	Describe the polygons resulting from combining or subdividing figures. (5.14B)
✓	Identify equivalent measurements within the metric system. (5.9A)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine possible outcomes of a single event. (5.15)
✗	Compare data in line plots and stem-and-leaf plots. (5.16C)
✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Identify a variable or describe an unknown quantity using a variable. (5.19A)
✓	Determine possible outcomes of a single event. (5.15)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Identify a variable or describe an unknown quantity using a variable. (5.19A)



## REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1549

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗			‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗			Solve practical problems involving whole numbers. (5.4)
✗			Solve practical problems involving decimals. (5.5B)
		✓	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
		✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Determine perimeter, area, and volume from given information. (5.8A)
✗			Identify the parts of a circle. (5.10)
✗			Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✗			Determine the measures of interior angles in a triangle. (5.13B)
		✓	Solve practical problems involving metric units. (5.9B)
		✓	Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Identify, describe, and extend numerical patterns. (5.18)
✗			Identify a variable or describe an unknown quantity using a variable. (5.19A)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
		✓	Determine and describe range as a measure of spread for a set of data. (5.17C)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)



## REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1452

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

#### Reporting Category

#### Number and Number Sense

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✓		‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✓		Identify odd and even numbers. (5.3B)

#### Reporting Category

#### Computation and Estimation

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving decimals. (5.5B)
		✓	Solve practical problems involving decimals. (5.5B)
		✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

#### Reporting Category

#### Measurement and Geometry

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Determine perimeter, area, and volume from given information. (5.8A)
		✗	Determine perimeter, area, and volume from given information. (5.8A)
		✗	Estimate and measure an object using metric units. (5.9B)
		✗	Apply transformations to plane figures. (5.14A)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Classify angles as right, acute, straight, or obtuse. (5.12)

#### Reporting Category

#### Probability, Statistics, Patterns, Functions, and Algebra

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Compare data in line plots and stem-and-leaf plots. (5.16C)
		✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
		✗	Write an equation containing a variable, given a practical situation. (5.19B)
		✗	Create a practical situation to represent a given equation. (5.19D)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Identify, describe, and extend numerical patterns. (5.18)



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## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1385

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |   |
|---|--|---|
| <b>H</b> Item difficulty level is high.   | ✓ Student answered item correctly.                                 | ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | ✗ Student answered item incorrectly or did not provide a response. |   |
| <b>L</b> Item difficulty level is low.    |  |   |

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
✓	Round decimal numbers. (5.1)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving decimals. (5.5B)
✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✓	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine perimeter, area, and volume from given information. (5.8A)
✗	Identify the parts of a circle. (5.10)
✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✗	Classify angles as right, acute, straight, or obtuse. (5.12)
✗	Describe the polygons resulting from combining or subdividing figures. (5.14B)
✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine possible outcomes of a single event. (5.15)
✗	Determine possible outcomes of a single event. (5.15)
✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
✓	Describe mean as a fair share. (5.17B)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1486

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category

**Number and Number Sense**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
✓			‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category

**Computation and Estimation**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
✗			‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗		Solve practical problems involving decimals. (5.5B)
	✗		Solve practical problems involving decimals. (5.5B)
✓			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✓		‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✓		‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
	✓		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✓		Solve practical problems involving whole numbers. (5.4)

Reporting Category

**Measurement and Geometry**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
✗			Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✗		Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✗		Determine the measures of interior angles in a triangle. (5.13B)
	✓		Solve practical problems involving metric units. (5.9B)
	✓		Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✓		Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
✗			Calculate the mean, median, mode, or range for a set of data. (5.17D)
✗			Identify, describe, and extend numerical patterns. (5.18)
✗			Identify a variable or describe an unknown quantity using a variable. (5.19A)
	✗		Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
	✗		Identify a variable or describe an unknown quantity using a variable. (5.19A)
✓			Identify, describe, and extend numerical patterns. (5.18)
✓			Determine possible outcomes of a single event. (5.15)
✓			Determine possible outcomes of a single event. (5.15)





**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1382

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |                                  |   |  |   |   |
|---|----------------------------------|---|--|---|---|
| H | Item difficulty level is high.   | ✓ | Student answered item correctly.                                 | ‡ | Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| M | Item difficulty level is medium. | ✗ | Student answered item incorrectly or did not provide a response. |   |   |
| L | Item difficulty level is low.    |   |  |   |   |

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
✓	Round decimal numbers. (5.1)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving decimals. (5.5B)
✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✓	Solve practical problems involving whole numbers. (5.4)
✓	Solve practical problems involving decimals. (5.5B)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✗	Identify the parts of a circle. (5.10)
✗	Classify angles as right, acute, straight, or obtuse. (5.12)
✓	Identify equivalent measurements within the metric system. (5.9A)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine possible outcomes of a single event. (5.15)
✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
✗	Write an equation containing a variable, given a practical situation. (5.19B)
✓	Predict the likelihood of outcomes of a simple event. (4.13A)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Identify a variable or describe an unknown quantity using a variable. (5.19A)



REDACTED Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1474

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high. ✓ Student answered item correctly. ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
- M Item difficulty level is medium. ✗ Student answered item incorrectly or did not provide a response.
- L Item difficulty level is low.

Reporting Category

**Number and Number Sense**

Item Difficulty	
H M L	Item Descriptor and SOL Measured
✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
✓	Identify odd and even numbers. (5.3B)

Reporting Category

**Computation and Estimation**

Item Difficulty	
H M L	Item Descriptor and SOL Measured
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	Solve practical problems involving decimals. (5.5B)
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✓	Solve practical problems involving whole numbers. (5.4)
✓	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

Reporting Category

**Measurement and Geometry**

Item Difficulty	
H M L	Item Descriptor and SOL Measured
✗	Determine the measures of interior angles in a triangle. (5.13B)
✗	Determine perimeter, area, and volume from given information. (5.8A)
✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
✓	Identify equivalent measurements within the metric system. (5.9A)
✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty	
H M L	Item Descriptor and SOL Measured
✗	Determine possible outcomes of a single event. (5.15)
✗	Determine and describe range as a measure of spread for a set of data. (5.17C)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
✗	Compare data in line plots and stem-and-leaf plots. (5.16C)
✓	Determine possible outcomes of a single event. (5.15)
✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1463

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✗	Round decimal numbers. (5.1)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving decimals. (5.5B)
		✗	Solve practical problems involving decimals. (5.5B)
		✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Apply transformations to plane figures. (5.14A)
		✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✓	Estimate and measure an object using metric units. (5.9B)
		✓	Identify the parts of a circle. (5.10)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Apply transformations to plane figures. (5.14A)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
		✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
		✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1281

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |   |
|---|--|---|
| <b>H</b> Item difficulty level is high.   | ✓ Student answered item correctly.                                 | ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | ✗ Student answered item incorrectly or did not provide a response. |   |
| <b>L</b> Item difficulty level is low.    |  |   |

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Compare and order whole numbers. (4.1B)
✗			‡ Represent equivalent relationships between decimals and fractions. (5.2A)
✓			Use the place value structure to read and write whole numbers. (4.1A)
✓			Compare and order whole numbers. (4.1B)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✗			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗			‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗			Solve practical problems involving whole numbers. (5.4)
✗			Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Determine perimeter, area, and volume from given information. (5.8A)
✗			Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✗			Classify angles as right, acute, straight, or obtuse. (5.12)
✗			Classify angles as right, acute, straight, or obtuse. (5.12)
✓			Identify equivalent measures using appropriate units for liquid volume. (4.8C)
✓			Identify equivalent measures using appropriate units for length. (4.8C)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Predict the likelihood of outcomes of a simple event. (4.13A)
✗			Compare different representations of the same set of data. (4.14C)
✗			Represent data in a line plot or stem-and-leaf plot. (5.16A)
✗			Identify, describe, and extend numerical patterns. (5.18)
✗			Write an equation containing a variable, given a practical situation. (5.19B)
✓			Recognize, extend, and describe patterns. (4.15)
✓			Determine possible outcomes of a single event. (5.15)
✓			Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1554

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Identify prime and composite numbers. (5.3A)
✓			‡ Compare and order fractions and decimals. (5.2B)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Solve practical problems involving whole numbers. (5.4)
✗			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓			‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✓			‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✓			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓			Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Determine perimeter, area, and volume from given information. (5.8A)
✗			Determine perimeter, area, and volume from given information. (5.8A)
✗			Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✗			Describe the polygons resulting from combining or subdividing figures. (5.14B)
✓			Solve practical problems involving metric units. (5.9B)
✓			Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Determine possible outcomes of a single event. (5.15)
✗			Determine possible outcomes of a single event. (5.15)
✗			Calculate the mean, median, mode, or range for a set of data. (5.17D)
✗			Identify, describe, and extend numerical patterns. (5.18)
✗			Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
✓			Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
✓			Identify, describe, and extend numerical patterns. (5.18)
✓			Identify a variable or describe an unknown quantity using a variable. (5.19A)



REDACTED

Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1370

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			✓ Identify odd and even numbers. (5.3B)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			✗ ‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
			✗ Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
			✗ ‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
			✗ ‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
			✗ Solve practical problems involving decimals. (5.5B)
			✓ ‡ Solve problems by recalling multiplication facts, division facts, or both. (4.4A)
			✓ ‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
			✓ Solve practical problems involving whole numbers. (5.4)
			✓ Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			✗ Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
			✗ Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
			✗ Classify angles as right, acute, straight, or obtuse. (5.12)
			✗ Apply transformations to plane figures. (5.14A)
			✓ Estimate and measure an object using metric units. (5.9B)
			✓ Identify the parts of a circle. (5.10)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			✗ Determine possible outcomes of a single event. (5.15)
			✗ Determine possible outcomes of a single event. (5.15)
			✗ Represent data in a line plot or stem-and-leaf plot. (5.16A)
			✗ Describe mean as a fair share. (5.17B)
			✗ Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
			✓ Identify, describe, and extend numerical patterns. (5.18)
			✓ Identify, describe, and extend numerical patterns. (5.18)
			✓ Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1323

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			‡ Represent equivalent relationships between decimals and fractions. (5.2A)
			✓ Identify odd and even numbers. (5.3B)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			✗ ‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
			✗ ‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
			✗ Solve practical problems involving whole numbers. (5.4)
			✗ Solve practical problems involving whole numbers. (5.4)
			✗ Solve practical problems involving decimals. (5.5B)
			✗ Solve practical problems involving decimals. (5.5B)
			✗ Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
			✓ ‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			✗ Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
			✗ Estimate and measure an object using metric units. (5.9B)
			✗ Identify the parts of a circle. (5.10)
			✗ Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
			✗ Determine the measure of right, acute, straight, or obtuse angles. (5.12)
			✗ Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			✗ Determine possible outcomes of a single event. (5.15)
			✗ Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
			✗ Identify, describe, and extend numerical patterns. (5.18)
			✗ Write an equation containing a variable, given a practical situation. (5.19B)
			✓ Predict the likelihood of outcomes of a simple event. (4.13A)
			✓ Recognize, extend, and describe patterns. (4.15)
			✓ Describe mean as a fair share. (5.17B)
			✓ Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



**REDACTED** Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1561

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.  Student answered item correctly.
- M Item difficulty level is medium.  Student answered item incorrectly or did not provide a response.
- L Item difficulty level is low.  Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
<input checked="" type="checkbox"/>			Describe the characteristics of odd and even numbers. (5.3B)
		<input checked="" type="checkbox"/>	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		<input checked="" type="checkbox"/>	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		<input checked="" type="checkbox"/>	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		<input checked="" type="checkbox"/>	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
		<input checked="" type="checkbox"/>	Solve practical problems involving decimals. (5.5B)
		<input checked="" type="checkbox"/>	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		<input checked="" type="checkbox"/>	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		<input checked="" type="checkbox"/>	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		<input checked="" type="checkbox"/>	Solve practical problems involving whole numbers. (5.4)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		<input checked="" type="checkbox"/>	Describe the polygons resulting from combining or subdividing figures. (5.14B)
		<input checked="" type="checkbox"/>	Describe the polygons resulting from combining or subdividing figures. (5.14B)
		<input checked="" type="checkbox"/>	Determine perimeter, area, and volume from given information. (5.8A)
		<input checked="" type="checkbox"/>	Solve practical problems involving metric units. (5.9B)
		<input checked="" type="checkbox"/>	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		<input checked="" type="checkbox"/>	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		<input checked="" type="checkbox"/>	Determine possible outcomes of a single event. (5.15)
		<input checked="" type="checkbox"/>	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
		<input checked="" type="checkbox"/>	Calculate the mean, median, mode, or range for a set of data. (5.17D)
		<input checked="" type="checkbox"/>	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
		<input checked="" type="checkbox"/>	Determine possible outcomes of a single event. (5.15)
		<input checked="" type="checkbox"/>	Identify, describe, and extend numerical patterns. (5.18)
		<input checked="" type="checkbox"/>	Identify, describe, and extend numerical patterns. (5.18)
		<input checked="" type="checkbox"/>	Write an equation containing a variable, given a practical situation. (5.19B)





**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1464

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |  |
|---|--|--|
| <b>H</b> Item difficulty level is high.   | <input checked="" type="checkbox"/> Student answered item correctly.                                 | <b>‡</b> Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | <input checked="" type="checkbox"/> Student answered item incorrectly or did not provide a response. |  |
| <b>L</b> Item difficulty level is low.    |  |  |

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
<input checked="" type="checkbox"/>	<b>‡</b> Represent equivalent relationships between decimals and fractions. (5.2A)
<input checked="" type="checkbox"/>	Describe the characteristics of odd and even numbers. (5.3B)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
<input checked="" type="checkbox"/>	<b>‡</b> Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
<input checked="" type="checkbox"/>	<b>‡</b> Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
<input checked="" type="checkbox"/>	Solve practical problems involving whole numbers. (5.4)
<input checked="" type="checkbox"/>	Solve practical problems involving decimals. (5.5B)
<input checked="" type="checkbox"/>	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
<input checked="" type="checkbox"/>	<b>‡</b> Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
<input checked="" type="checkbox"/>	<b>‡</b> Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
<input checked="" type="checkbox"/>	Solve practical problems involving decimals. (5.5B)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
<input checked="" type="checkbox"/>	Determine perimeter, area, and volume from given information. (5.8A)
<input checked="" type="checkbox"/>	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
<input checked="" type="checkbox"/>	Apply transformations to plane figures. (5.14A)
<input checked="" type="checkbox"/>	Identify the parts of a circle. (5.10)
<input checked="" type="checkbox"/>	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
<input checked="" type="checkbox"/>	Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
<input checked="" type="checkbox"/>	Identify, describe, and extend numerical patterns. (5.18)
<input checked="" type="checkbox"/>	Compare data in line plots and stem-and-leaf plots. (5.16C)
<input checked="" type="checkbox"/>	Identify, describe, and extend numerical patterns. (5.18)
<input checked="" type="checkbox"/>	Create a practical situation to represent a given equation. (5.19D)
<input checked="" type="checkbox"/>	Determine possible outcomes of a single event. (5.15)
<input checked="" type="checkbox"/>	Determine possible outcomes of a single event. (5.15)
<input checked="" type="checkbox"/>	Determine and describe range as a measure of spread for a set of data. (5.17C)
<input checked="" type="checkbox"/>	Write an equation containing a variable, given a practical situation. (5.19B)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1386

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✓		‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✓		Identify odd and even numbers. (5.3B)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗		Solve practical problems involving whole numbers. (5.4)
	✗		Solve practical problems involving whole numbers. (5.4)
	✗		Solve practical problems involving decimals. (5.5B)
	✓		Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✗		Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✗		Classify angles as right, acute, straight, or obtuse. (5.12)
	✗		Describe the polygons resulting from combining or subdividing figures. (5.14B)
	✓		Determine perimeter, area, and volume from given information. (5.8A)
	✓		Solve practical problems involving metric units. (5.9B)
	✓		Identify the parts of a circle. (5.10)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✗		Identify, describe, and extend numerical patterns. (5.18)
	✗		Identify a variable or describe an unknown quantity using a variable. (5.19A)
	✓		Determine possible outcomes of a single event. (5.15)
	✓		Determine possible outcomes of a single event. (5.15)
	✓		Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✓		Describe mean as a fair share. (5.17B)
	✓		Identify, describe, and extend numerical patterns. (5.18)
	✓		Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



## REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1425

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✓	Round decimal numbers. (5.1)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving decimals. (5.5B)
		✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✓	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine perimeter, area, and volume from given information. (5.8A)
		✗	Identify the parts of a circle. (5.10)
		✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✗	Classify angles as right, acute, straight, or obtuse. (5.12)
		✗	Apply transformations to plane figures. (5.14A)
		✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Describe mean, median, and mode as measures of center. (5.17A)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Represent data in a line plot or stem-and-leaf plot. (5.16A)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)
		✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1369

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			‡ Compare and order fractions and decimals. (5.2B)
			✗ Round decimal numbers. (5.1)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			✗ Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
			✗ ‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
			✗ ‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
			✗ ‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
			✗ Solve practical problems involving whole numbers. (5.4)
			✗ Solve practical problems involving decimals. (5.5B)
			✓ ‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
			✓ Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			✗ Determine perimeter, area, and volume from given information. (5.8A)
			✗ Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
			✓ Estimate and measure an object using metric units. (5.9B)
			✓ Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
			✓ Classify angles as right, acute, straight, or obtuse. (5.12)
			✓ Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
			✗ Determine possible outcomes of a single event. (5.15)
			✗ Determine possible outcomes of a single event. (5.15)
			✗ Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
			✗ Calculate the mean, median, mode, or range for a set of data. (5.17D)
			✗ Identify, describe, and extend numerical patterns. (5.18)
			✓ Identify, describe, and extend numerical patterns. (5.18)
			✓ Write an equation containing a variable, given a practical situation. (5.19B)
			✓ Create a practical situation to represent a given equation. (5.19D)



## REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1485

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |   |
|---|--|---|
| <b>H</b> Item difficulty level is high.   | ✓ Student answered item correctly.                                 | ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | ✗ Student answered item incorrectly or did not provide a response. |   |
| <b>L</b> Item difficulty level is low.    |  |   |

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Round decimal numbers. (5.1)
✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving decimals. (5.5B)
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✓	Solve practical problems involving decimals. (5.5B)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✗	Determine the measures of interior angles in a triangle. (5.13B)
✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✗	Estimate and measure an object using metric units. (5.9B)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Identify a variable or describe an unknown quantity using a variable. (5.19A)
✓	Determine possible outcomes of a single event. (5.15)
✓	Determine possible outcomes of a single event. (5.15)
✓	Represent data in a line plot or stem-and-leaf plot. (5.16A)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1381

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high. ✓ Student answered item correctly. ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
- M Item difficulty level is medium. ✗ Student answered item incorrectly or did not provide a response.
- L Item difficulty level is low.

Reporting Category			
<b>Number and Number Sense</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✓		‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✓		Identify odd and even numbers. (5.3B)

Reporting Category			
<b>Computation and Estimation</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✗		Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗		‡ Simplify whole number numerical expressions using the order of operations. (5.7)
	✗		Solve practical problems involving whole numbers. (5.4)
	✗		Solve practical problems involving whole numbers. (5.4)
	✗		Solve practical problems involving decimals. (5.5B)
	✓		‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✓		Solve practical problems involving decimals. (5.5B)

Reporting Category			
<b>Measurement and Geometry</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✗		Estimate and measure an object using metric units. (5.9B)
	✗		Identify the parts of a circle. (5.10)
	✗		Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✓		Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✓		Classify angles as right, acute, straight, or obtuse. (5.12)
	✓		Apply transformations to plane figures. (5.14A)

Reporting Category			
<b>Probability, Statistics, Patterns, Functions, and Algebra</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✗		Determine possible outcomes of a single event. (5.15)
	✗		Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✗		Identify, describe, and extend numerical patterns. (5.18)
	✗		Create a practical situation to represent a given equation. (5.19D)
	✓		Determine possible outcomes of a single event. (5.15)
	✓		Describe mean as a fair share. (5.17B)
	✓		Identify, describe, and extend numerical patterns. (5.18)
	✓		Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1271

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category			
<b>Number and Number Sense</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Identify place and value of digits in whole numbers. (4.1A)
		✗	Identify odd and even numbers. (5.3B)
		✓	Compare and order whole numbers. (4.1B)

Reporting Category			
<b>Computation and Estimation</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving decimals. (5.5B)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Solve problems by recalling multiplication facts, division facts, or both. (4.4A)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)

Reporting Category			
<b>Measurement and Geometry</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Describe, compare, and contrast characteristics of plane and/or solid geometric figures. (4.11)
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✗	Classify angles as right, acute, straight, or obtuse. (5.12)
		✓	Estimate or determine the perimeter or area of a given figure. (4.7)
		✓	Identify equivalent measurements within the metric system. (5.9A)

Reporting Category			
<b>Probability, Statistics, Patterns, Functions, and Algebra</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Recognize, extend, and describe patterns. (4.15)
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
		✗	Describe mean as a fair share. (5.17B)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✗	Identify a variable or describe an unknown quantity using a variable. (5.19A)
		✓	Determine and represent the outcomes of events using fractional representations from 0 to 1, including representations on a number line. (4.13B)
		✓	Compare different representations of the same set of data. (4.14C)



**REDACTED** Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1455

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |                                  |   |  |   |   |
|---|----------------------------------|---|--|---|---|
| H | Item difficulty level is high.   | ✓ | Student answered item correctly.                                 | ‡ | Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| M | Item difficulty level is medium. | ✗ | Student answered item incorrectly or did not provide a response. |   |   |
| L | Item difficulty level is low.    |   |  |   |   |

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Compare and order fractions and decimals. (5.2B)
✓	Identify prime and composite numbers. (5.3A)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving decimals. (5.5B)
✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✓	Solve practical problems involving decimals. (5.5B)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine perimeter, area, and volume from given information. (5.8A)
✗	Determine perimeter, area, and volume from given information. (5.8A)
✗	Apply transformations to plane figures. (5.14A)
✓	Identify equivalent measurements within the metric system. (5.9A)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Determine the measures of interior angles in a triangle. (5.13B)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine possible outcomes of a single event. (5.15)
✗	Determine possible outcomes of a single event. (5.15)
✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
✗	Create a practical situation to represent a given equation. (5.19D)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)





**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1369

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |                                  |   |  |   |   |
|---|----------------------------------|---|--|---|---|
| H | Item difficulty level is high.   | ✓ | Student answered item correctly.                                 | ‡ | Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| M | Item difficulty level is medium. | ✗ | Student answered item incorrectly or did not provide a response. |   |   |
| L | Item difficulty level is low.    |   |  |   |   |

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Compare and order fractions and decimals. (5.2B)
✓	Describe the characteristics of odd and even numbers. (5.3B)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✗	‡ Solve addition or subtraction problems with decimals. (4.6A)
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving decimals. (5.5B)
✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✓	Solve practical problems involving decimals. (5.5B)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Identify the parts of a circle. (5.10)
✗	Classify angles as right, acute, straight, or obtuse. (5.12)
✓	Determine perimeter, area, and volume from given information. (5.8A)
✓	Estimate and measure an object using metric units. (5.9B)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine possible outcomes of a single event. (5.15)
✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
✓	Analyze and interpret information presented in a bar graph or line graph. (4.14B)
✓	Describe mean as a fair share. (5.17B)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



## REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1258

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

H	Item difficulty level is high.	✓	Student answered item correctly.	‡	Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
M	Item difficulty level is medium.	✗	Student answered item incorrectly or did not provide a response.		
L	Item difficulty level is low.				

Reporting Category

**Number and Number Sense**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		Compare and order whole numbers. (4.1B)
	✗		Describe the characteristics of odd and even numbers. (5.3B)

Reporting Category

**Computation and Estimation**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
✗			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗		Create and solve practical problems involving addition, subtraction, multiplication, or division of whole numbers. (4.4D)
	✗		‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗		‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
	✗		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗		Solve practical problems involving whole numbers. (5.4)
	✗		Solve practical problems involving decimals. (5.5B)
		✓	‡ Estimate or determine sums, differences, or products of whole numbers. (4.4B)

Reporting Category

**Measurement and Geometry**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		Describe, compare, and contrast characteristics of plane and/or solid geometric figures. (4.11)
	✗		Determine perimeter, area, and volume from given information. (5.8A)
	✗		Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✗		Apply transformations to plane figures. (5.14A)
		✓	Determine elapsed time. (4.9)
		✓	Solve practical problems involving metric units. (5.9B)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		Compare different representations of the same set of data. (4.14C)
	✗		Determine possible outcomes of a single event. (5.15)
	✗		Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
	✗		Identify, describe, and extend numerical patterns. (5.18)
	✗		Identify a variable or describe an unknown quantity using a variable. (5.19A)
		✓	Construct a bar graph or line graph to represent a data set. (4.14A)
		✓	Describe mean as a fair share. (5.17B)
		✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED**

Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1394

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category

**Number and Number Sense**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✓	‡ Compare and order fractions and decimals. (5.2B)
	✓	Describe the characteristics of odd and even numbers. (5.3B)

Reporting Category

**Computation and Estimation**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗	Solve practical problems involving decimals. (5.5B)
	✗	Solve practical problems involving decimals. (5.5B)
	✓	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
	✓	Solve practical problems involving whole numbers. (5.4)

Reporting Category

**Measurement and Geometry**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Estimate and measure an object using metric units. (5.9B)
	✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✓	Determine perimeter, area, and volume from given information. (5.8A)
	✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✓	Classify angles as right, acute, straight, or obtuse. (5.12)
	✓	Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Determine possible outcomes of a single event. (5.15)
	✗	Determine possible outcomes of a single event. (5.15)
	✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✗	Describe mean as a fair share. (5.17B)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Write an equation containing a variable, given a practical situation. (5.19B)
	✓	Write an equation containing a variable, given a practical situation. (5.19B)



**REDACTED** **REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1425

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category

**Number and Number Sense**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	‡ Compare and order fractions and decimals. (5.2B)
	✓	Round decimal numbers. (5.1)

Reporting Category

**Computation and Estimation**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
	✗	Solve practical problems involving decimals. (5.5B)
	✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✓	Solve practical problems involving whole numbers. (5.4)
	✓	Solve practical problems involving whole numbers. (5.4)
	✓	Solve practical problems involving decimals. (5.5B)

Reporting Category

**Measurement and Geometry**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Determine perimeter, area, and volume from given information. (5.8A)
	✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✗	Identify the parts of a circle. (5.10)
	✗	Classify angles as right, acute, straight, or obtuse. (5.12)
	✓	Estimate and measure an object using metric units. (5.9B)
	✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✗	Identify, describe, and extend numerical patterns. (5.18)
	✗	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Determine and describe range as a measure of spread for a set of data. (5.17C)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Identify a variable or describe an unknown quantity using a variable. (5.19A)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1342

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Use the place value structure to round whole numbers. (4.1C)
		✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✓	Round decimal numbers. (5.1)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving decimals. (5.5B)
		✓	‡ Solve addition or subtraction problems with decimals. (4.6A)
		✓	Solve practical problems involving whole numbers. (5.4)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✗	Identify the parts of a circle. (5.10)
		✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✗	Classify angles as right, acute, straight, or obtuse. (5.12)
		✗	Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
		✗	Create a practical situation to represent a given equation. (5.19D)
		✓	Recognize, extend, and describe patterns. (4.15)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Describe mean as a fair share. (5.17B)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Identify a variable or describe an unknown quantity using a variable. (5.19A)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration State Testing Identifier	Test Name Grade	Division School	Delivery Group
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Vertical Scaled Score: 1356

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Represent equivalent fractions using models. (4.2B)
		✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✗	Round decimal numbers. (5.1)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving decimals. (5.5B)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine perimeter, area, and volume from given information. (5.8A)
		✗	Determine the measure of right, acute, straight, or obtuse angles. (5.12)
		✓	Identify equivalent measurements within the metric system. (5.9A)
		✓	Identify the parts of a circle. (5.10)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Describe mean as a fair share. (5.17B)
		✗	Write an equation containing a variable, given a practical situation. (5.19B)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Represent data in a line plot or stem-and-leaf plot. (5.16A)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1514

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category	
<b>Number and Number Sense</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category	
<b>Computation and Estimation</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✗	Solve practical problems involving decimals. (5.5B)
✓	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✓	Solve practical problems involving whole numbers. (5.4)
✓	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

Reporting Category	
<b>Measurement and Geometry</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✗	Determine the measures of interior angles in a triangle. (5.13B)
✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✓	Solve practical problems involving metric units. (5.9B)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

Reporting Category	
<b>Probability, Statistics, Patterns, Functions, and Algebra</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
✓	Determine possible outcomes of a single event. (5.15)
✓	Determine possible outcomes of a single event. (5.15)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Create a practical situation to represent a given equation. (5.19D)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1411

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

H	Item difficulty level is high.	✓	Student answered item correctly.	‡	Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
M	Item difficulty level is medium.	✗	Student answered item incorrectly or did not provide a response.		
L	Item difficulty level is low.				

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✓	Identify odd and even numbers. (5.3B)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	Solve practical problems involving decimals. (5.5B)
		✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✓	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine perimeter, area, and volume from given information. (5.8A)
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✗	Identify the parts of a circle. (5.10)
		✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
		✗	Determine and describe range as a measure of spread for a set of data. (5.17C)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)
		✓	Create a practical situation to represent a given equation. (5.19D)





## REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1437

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |   |
|---|--|---|
| <b>H</b> Item difficulty level is high.   | ✓ Student answered item correctly.                                 | ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | ✗ Student answered item incorrectly or did not provide a response. |   |
| <b>L</b> Item difficulty level is low.    |  |   |

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
✓	Identify odd and even numbers. (5.3B)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✓	Solve practical problems involving decimals. (5.5B)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine perimeter, area, and volume from given information. (5.8A)
✗	Identify the parts of a circle. (5.10)
✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
✓	Determine perimeter, area, and volume from given information. (5.8A)
✓	Estimate and measure an object using metric units. (5.9B)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
✗	Identify, describe, and extend numerical patterns. (5.18)
✓	Determine possible outcomes of a single event. (5.15)
✓	Determine possible outcomes of a single event. (5.15)
✓	Represent data in a line plot or stem-and-leaf plot. (5.16A)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Write an equation containing a variable, given a practical situation. (5.19B)
✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



**REDACTED**

Student Detail by Question Report

Student Test Details

Administration State Testing Identifier	Test Name Grade	Division School	Delivery Group
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Vertical Scaled Score: 1361

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✓		‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✓		Identify odd and even numbers. (5.3B)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗		‡ Simplify whole number numerical expressions using the order of operations. (5.7)
	✗		Solve practical problems involving whole numbers. (5.4)
	✗		Solve practical problems involving whole numbers. (5.4)
	✗		Solve practical problems involving decimals. (5.5B)
	✗		Solve practical problems involving decimals. (5.5B)
	✓		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✗		Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✗		Describe the polygons resulting from combining or subdividing figures. (5.14B)
	✓		Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✓		Identify the parts of a circle. (5.10)
	✓		Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✓		Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✗		Determine possible outcomes of a single event. (5.15)
	✗		Determine possible outcomes of a single event. (5.15)
	✗		Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✗		Describe mean as a fair share. (5.17B)
	✗		Identify, describe, and extend numerical patterns. (5.18)
	✗		Create a practical situation to represent a given equation. (5.19D)
	✗		Create a practical situation to represent a given equation. (5.19D)
	✓		Identify, describe, and extend numerical patterns. (5.18)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1489

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category

**Number and Number Sense**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
✓		‡ Represent equivalent relationships between decimals and fractions. (5.2A)
✓		Describe the characteristics of odd and even numbers. (5.3B)

Reporting Category

**Computation and Estimation**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
✗		Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✗		‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗		Solve practical problems involving whole numbers. (5.4)
✓		‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓		Solve practical problems involving decimals. (5.5B)
✓		Solve practical problems involving decimals. (5.5B)
✓		Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

Reporting Category

**Measurement and Geometry**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
✗		Determine perimeter, area, and volume from given information. (5.8A)
✗		Identify the parts of a circle. (5.10)
✓		Determine perimeter, area, and volume from given information. (5.8A)
✓		Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓		Classify angles as right, acute, straight, or obtuse. (5.12)
✓		Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
✗		Identify, describe, and extend numerical patterns. (5.18)
✗		Calculate the mean, median, mode, or range for a set of data. (5.17D)
✗		Create a practical situation to represent a given equation. (5.19D)
✗		Create a practical situation to represent a given equation. (5.19D)
✓		Determine possible outcomes of a single event. (5.15)
✓		Determine possible outcomes of a single event. (5.15)
✓		Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
✓		Identify, describe, and extend numerical patterns. (5.18)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1432

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |   |
|---|--|---|
| <b>H</b> Item difficulty level is high.   | ✓ Student answered item correctly.                                 | ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | ✗ Student answered item incorrectly or did not provide a response. |   |
| <b>L</b> Item difficulty level is low.    |  |   |

Reporting Category

**Number and Number Sense**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		Round decimal numbers. (5.1)
		✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category

**Computation and Estimation**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗		Solve practical problems involving decimals. (5.5B)
	✗		Solve practical problems involving decimals. (5.5B)
✓			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✓		‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
	✓		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✓		Solve practical problems involving whole numbers. (5.4)

Reporting Category

**Measurement and Geometry**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		Determine perimeter, area, and volume from given information. (5.8A)
	✗		Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✗		Classify angles as right, acute, straight, or obtuse. (5.12)
	✗		Apply transformations to plane figures. (5.14A)
	✓		Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✓		Identify the parts of a circle. (5.10)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		Determine possible outcomes of a single event. (5.15)
	✗		Calculate the mean, median, mode, or range for a set of data. (5.17D)
	✓		Determine possible outcomes of a single event. (5.15)
	✓		Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✓		Identify, describe, and extend numerical patterns. (5.18)
	✓		Identify, describe, and extend numerical patterns. (5.18)
	✓		Identify a variable or describe an unknown quantity using a variable. (5.19A)
	✓		Create a practical situation to represent a given equation. (5.19D)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1522

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Identify prime and composite numbers. (5.3A)
✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓	Solve practical problems involving decimals. (5.5B)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✗	Determine the measure of right, acute, straight, or obtuse angles. (5.12)
✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Identify equivalent measurements within the metric system. (5.9A)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine possible outcomes of a single event. (5.15)
✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
✗	Compare data in line plots and stem-and-leaf plots. (5.16C)
✓	Determine possible outcomes of a single event. (5.15)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Write an equation containing a variable, given a practical situation. (5.19B)
✓	Create a practical situation to represent a given equation. (5.19D)



## REDACTED Student Detail by Question Report

### Student Test Details

Administration State Testing Identifier	Test Name Grade	Division School	Delivery Group
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Vertical Scaled Score: 1308

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

H	Item difficulty level is high.	✓	Student answered item correctly.	‡	Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
M	Item difficulty level is medium.	✗	Student answered item incorrectly or did not provide a response.		
L	Item difficulty level is low.				

Reporting Category		
Number and Number Sense		
Item Difficulty		
H	M	L
		✗
		✓

Reporting Category		
Computation and Estimation		
Item Difficulty		
H	M	L
		✗
		✗
		✗
		✗
		✗
		✗
		✗
		✓
		✓

Reporting Category		
Measurement and Geometry		
Item Difficulty		
H	M	L
		✗
		✗
		✗
		✗
		✗
		✗
		✓

Reporting Category		
Probability, Statistics, Patterns, Functions, and Algebra		
Item Difficulty		
H	M	L
		✗
		✗
		✗
		✗
		✗
		✗
		✓
		✓



REDACTED REDACTED Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1515

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

H	Item difficulty level is high.	✓	Student answered item correctly.	‡	Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
M	Item difficulty level is medium.	✗	Student answered item incorrectly or did not provide a response.		
L	Item difficulty level is low.				

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✓	Identify prime and composite numbers. (5.3A)
✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine perimeter, area, and volume from given information. (5.8A)
✗	Describe the relationship between the parts of a circle. (5.10)
✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✗	Describe the polygons resulting from combining or subdividing figures. (5.14B)
✓	Apply transformations to plane figures. (5.14A)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Identify a variable or describe an unknown quantity using a variable. (5.19A)
✓	Determine possible outcomes of a single event. (5.15)
✓	Determine possible outcomes of a single event. (5.15)
✓	Determine and describe range as a measure of spread for a set of data. (5.17C)
✓	Create a practical situation to represent a given equation. (5.19D)



## REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1367

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

H	Item difficulty level is high.	✓	Student answered item correctly.	‡	Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
M	Item difficulty level is medium.	✗	Student answered item incorrectly or did not provide a response.		
L	Item difficulty level is low.				

Reporting Category				
Number and Number Sense				
Item Difficulty	H	M	L	
Item Descriptor and SOL Measured				
	✓			‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✓			Identify odd and even numbers. (5.3B)

Reporting Category				
Computation and Estimation				
Item Difficulty	H	M	L	
Item Descriptor and SOL Measured				
	✗			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗			‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗			‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗			Solve practical problems involving whole numbers. (5.4)
	✗			Solve practical problems involving whole numbers. (5.4)
	✓			‡ Solve addition or subtraction problems with fractions. (4.5B)
	✓			Solve practical problems involving decimals. (5.5B)

Reporting Category				
Measurement and Geometry				
Item Difficulty	H	M	L	
Item Descriptor and SOL Measured				
	✗			Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✗			Classify angles as right, acute, straight, or obtuse. (5.12)
	✗			Classify angles as right, acute, straight, or obtuse. (5.12)
	✓			Identify equivalent measurements within the metric system. (5.9A)
	✓			Identify the parts of a circle. (5.10)
	✓			Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

Reporting Category				
Probability, Statistics, Patterns, Functions, and Algebra				
Item Difficulty	H	M	L	
Item Descriptor and SOL Measured				
	✗			Determine possible outcomes of a single event. (5.15)
	✗			Determine possible outcomes of a single event. (5.15)
	✗			Create a practical situation to represent a given equation. (5.19D)
	✗			Create a practical situation to represent a given equation. (5.19D)
	✓			Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
	✓			Describe mean as a fair share. (5.17B)
	✓			Identify, describe, and extend numerical patterns. (5.18)
	✓			Identify, describe, and extend numerical patterns. (5.18)





## REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1297

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

#### Reporting Category

#### Number and Number Sense

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✗		Describe the characteristics of odd and even numbers. (5.3B)

#### Reporting Category

#### Computation and Estimation

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗		Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗		Solve practical problems involving addition and subtraction of decimals. (4.6B)
	✗		‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
	✗		Solve practical problems involving whole numbers. (5.4)
	✗		Solve practical problems involving decimals. (5.5B)
	✓		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✓		Solve practical problems involving decimals. (5.5B)

#### Reporting Category

#### Measurement and Geometry

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		Solve practical problems involving U.S. Customary units. (4.8D)
	✗		Determine perimeter, area, and volume from given information. (5.8A)
	✗		Estimate and measure an object using metric units. (5.9B)
	✗		Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✓		Identify the parts of a circle. (5.10)
	✓		Apply transformations to plane figures. (5.14A)

#### Reporting Category

#### Probability, Statistics, Patterns, Functions, and Algebra

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		Construct a bar graph or line graph to represent a data set. (4.14A)
	✗		Determine possible outcomes of a single event. (5.15)
	✗		Determine possible outcomes of a single event. (5.15)
	✗		Calculate the mean, median, mode, or range for a set of data. (5.17D)
	✗		Identify, describe, and extend numerical patterns. (5.18)
	✗		Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
	✓		Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✓		Identify a variable or describe an unknown quantity using a variable. (5.19A)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1501

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category  
**Number and Number Sense**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✓	Describe the characteristics of odd and even numbers. (5.3B)

Reporting Category  
**Computation and Estimation**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗	Solve practical problems involving whole numbers. (5.4)
	✗	Solve practical problems involving decimals. (5.5B)
	✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✓	Solve practical problems involving decimals. (5.5B)

Reporting Category  
**Measurement and Geometry**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✗	Identify the parts of a circle. (5.10)
	✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✓	Determine the measures of interior angles in a triangle. (5.13B)
	✓	Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category  
**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Compare data in line plots and stem-and-leaf plots. (5.16C)
	✗	Determine and describe range as a measure of spread for a set of data. (5.17C)
	✗	Identify, describe, and extend numerical patterns. (5.18)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Write an equation containing a variable, given a practical situation. (5.19B)
	✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



REDACTED

Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1517

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✓	Identify prime and composite numbers. (5.3A)
✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	Solve practical problems involving whole numbers. (5.4)
✓	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✓	Solve practical problems involving decimals. (5.5B)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✗	Identify equivalent measurements within the metric system. (5.9A)
✗	Determine the measure of right, acute, straight, or obtuse angles. (5.12)
✗	Determine the measure of right, acute, straight, or obtuse angles. (5.12)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine possible outcomes of a single event. (5.15)
✗	Determine possible outcomes of a single event. (5.15)
✗	Compare data in line plots and stem-and-leaf plots. (5.16C)
✗	Identify a variable or describe an unknown quantity using a variable. (5.19A)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Create a practical situation to represent a given equation. (5.19D)
✓	Describe mean as a fair share. (5.17B)
✓	Identify, describe, and extend numerical patterns. (5.18)



## REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1439

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

#### Reporting Category

#### Number and Number Sense

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✓	Describe the characteristics of odd and even numbers. (5.3B)

#### Reporting Category

#### Computation and Estimation

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗		‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗		Solve practical problems involving whole numbers. (5.4)
	✗		Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✓	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
		✓	Solve practical problems involving decimals. (5.5B)
		✓	Solve practical problems involving decimals. (5.5B)

#### Reporting Category

#### Measurement and Geometry

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		Determine perimeter, area, and volume from given information. (5.8A)
	✗		Classify angles as right, acute, straight, or obtuse. (5.12)
	✗		Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
		✓	Determine perimeter, area, and volume from given information. (5.8A)
		✓	Identify the parts of a circle. (5.10)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

#### Reporting Category

#### Probability, Statistics, Patterns, Functions, and Algebra

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✗		Determine possible outcomes of a single event. (5.15)
	✗		Compare data in line plots and stem-and-leaf plots. (5.16C)
	✗		Describe mean as a fair share. (5.17B)
	✗		Identify, describe, and extend numerical patterns. (5.18)
	✗		Identify a variable or describe an unknown quantity using a variable. (5.19A)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1439

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |                                  |   |  |   |   |
|---|----------------------------------|---|--|---|---|
| H | Item difficulty level is high.   | ✓ | Student answered item correctly.                                 | ‡ | Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| M | Item difficulty level is medium. | ✗ | Student answered item incorrectly or did not provide a response. |   |   |
| L | Item difficulty level is low.    |   |  |   |   |

Reporting Category

**Number and Number Sense**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✓	Round decimal numbers. (5.1)

Reporting Category

**Computation and Estimation**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving decimals. (5.5B)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category

**Measurement and Geometry**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✗	Identify the parts of a circle. (5.10)
		✗	Classify angles as right, acute, straight, or obtuse. (5.12)
		✓	Determine perimeter, area, and volume from given information. (5.8A)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Apply transformations to plane figures. (5.14A)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Calculate the mean, median, mode, or range for a set of data. (5.17D)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)



REDACTED

Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1451

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✓	Identify prime and composite numbers. (5.3A)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving decimals. (5.5B)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine perimeter, area, and volume from given information. (5.8A)
		✗	Identify the parts of a circle. (5.10)
		✗	Determine the measures of interior angles in a triangle. (5.13B)
		✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Describe mean as a fair share. (5.17B)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)
		✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1423

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |   |
|---|--|---|
| <b>H</b> Item difficulty level is high.   | ✓ Student answered item correctly.                                 | ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | ✗ Student answered item incorrectly or did not provide a response. |   |
| <b>L</b> Item difficulty level is low.    |  |   |

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
✓	Describe the characteristics of odd and even numbers. (5.3B)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✗	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
✗	Solve practical problems involving decimals. (5.5B)
✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✓	Solve practical problems involving whole numbers. (5.4)
✓	Solve practical problems involving decimals. (5.5B)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✗	Classify angles as right, acute, straight, or obtuse. (5.12)
✓	Determine perimeter, area, and volume from given information. (5.8A)
✓	Identify equivalent measurements within the metric system. (5.9A)
✓	Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine possible outcomes of a single event. (5.15)
✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
✓	Determine possible outcomes of a single event. (5.15)
✓	Represent data in a line plot or stem-and-leaf plot. (5.16A)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1540

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |   |
|---|--|---|
| <b>H</b> Item difficulty level is high.   | ✓ Student answered item correctly.                                 | ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | ✗ Student answered item incorrectly or did not provide a response. |   |
| <b>L</b> Item difficulty level is low.    |  |   |

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✓	Identify prime and composite numbers. (5.3A)
✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗	Solve practical problems involving decimals. (5.5B)
✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓	Solve practical problems involving whole numbers. (5.4)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Describe the relationship between the parts of a circle. (5.10)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Determine the measures of interior angles in a triangle. (5.13B)
✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✓	Determine the measures of interior angles in a triangle. (5.13B)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine possible outcomes of a single event. (5.15)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Create a practical situation to represent a given equation. (5.19D)
✓	Determine possible outcomes of a single event. (5.15)
✓	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
✓	Determine and describe range as a measure of spread for a set of data. (5.17C)
✓	Identify a variable or describe an unknown quantity using a variable. (5.19A)





**REDACTED** Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1520

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category

**Number and Number Sense**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
✓			Identify prime and composite numbers. (5.3A)
		✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category

**Computation and Estimation**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
✗			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓			Solve practical problems involving whole numbers. (5.4)
✓			Solve practical problems involving decimals. (5.5B)
✓			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category

**Measurement and Geometry**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
✗			Determine perimeter, area, and volume from given information. (5.8A)
✗			Determine perimeter, area, and volume from given information. (5.8A)
✗			Determine the measure of right, acute, straight, or obtuse angles. (5.12)
✓			Identify equivalent measurements within the metric system. (5.9A)
✓			Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓			Determine the measure of right, acute, straight, or obtuse angles. (5.12)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
✗			Determine possible outcomes of a single event. (5.15)
✗			Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
✗			Calculate the mean, median, mode, or range for a set of data. (5.17D)
✗			Identify, describe, and extend numerical patterns. (5.18)
✗			Write an equation containing a variable, given a practical situation. (5.19B)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1505

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✓	Identify prime and composite numbers. (5.3A)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗			Solve practical problems involving decimals. (5.5B)
✗			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✗			Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✗			Determine the measures of interior angles in a triangle. (5.13B)
		✗	Solve practical problems involving metric units. (5.9B)
		✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✓	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Describe mean as a fair share. (5.17B)
		✗	Determine possible outcomes of a single event. (5.15)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Create a practical situation to represent a given equation. (5.19D)



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Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1496

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category

**Number and Number Sense**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✓	Describe the characteristics of odd and even numbers. (5.3B)

Reporting Category

**Computation and Estimation**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗	Solve practical problems involving decimals. (5.5B)
	✗	Solve practical problems involving whole numbers. (5.4)
	✗	Solve practical problems involving decimals. (5.5B)
	✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✓	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)

Reporting Category

**Measurement and Geometry**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✗	Identify equivalent measurements within the metric system. (5.9A)
	✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
	✗	Apply transformations to plane figures. (5.14A)
	✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✗	Create a practical situation to represent a given equation. (5.19D)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Describe mean as a fair share. (5.17B)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1504

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category			
<b>Number and Number Sense</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✓			‡ Represent equivalent relationships between decimals and fractions. (5.2A)
✓			Describe the characteristics of odd and even numbers. (5.3B)

Reporting Category			
<b>Computation and Estimation</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving decimals. (5.5B)
✓			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓			‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✓			Solve practical problems involving decimals. (5.5B)

Reporting Category			
<b>Measurement and Geometry</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
✓			Determine perimeter, area, and volume from given information. (5.8A)
✓			Identify equivalent measurements within the metric system. (5.9A)
✓			Identify the parts of a circle. (5.10)
✓			Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓			Apply transformations to plane figures. (5.14A)

Reporting Category			
<b>Probability, Statistics, Patterns, Functions, and Algebra</b>			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
		✗	Create a practical situation to represent a given equation. (5.19D)
✓			Identify, describe, and extend numerical patterns. (5.18)
✓			Determine possible outcomes of a single event. (5.15)
✓			Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
✓			Identify, describe, and extend numerical patterns. (5.18)
✓			Create a practical situation to represent a given equation. (5.19D)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration State Testing Identifier	Test Name Grade	Division School	Delivery Group
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Vertical Scaled Score: 1426

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Describe the characteristics of odd and even numbers. (5.3B)
		✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving decimals. (5.5B)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Describe the relationship between the parts of a circle. (5.10)
		✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✗	Classify angles as right, acute, straight, or obtuse. (5.12)
		✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✓	Estimate and measure an object using metric units. (5.9B)
		✓	Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Compare data in line plots and stem-and-leaf plots. (5.16C)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Calculate the mean, median, mode, or range for a set of data. (5.17D)
		✓	Create a practical situation to represent a given equation. (5.19D)
		✓	Create a practical situation to represent a given equation. (5.19D)



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Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1448

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category

**Number and Number Sense**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
	✓		‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✓		Identify odd and even numbers. (5.3B)

Reporting Category

**Computation and Estimation**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving decimals. (5.5B)
	✓		Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✓		‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✓		Solve practical problems involving whole numbers. (5.4)
	✓		Solve practical problems involving decimals. (5.5B)

Reporting Category

**Measurement and Geometry**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✗	Classify angles as right, acute, straight, or obtuse. (5.12)
	✓		Determine perimeter, area, and volume from given information. (5.8A)
	✓		Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✓		Estimate and measure an object using metric units. (5.9B)
	✓		Identify the parts of a circle. (5.10)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✗	Create a practical situation to represent a given equation. (5.19D)
	✓		Determine possible outcomes of a single event. (5.15)
	✓		Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✓		Identify, describe, and extend numerical patterns. (5.18)
	✓		Write an equation containing a variable, given a practical situation. (5.19B)



## REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1285

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |   |
|---|--|---|
| <b>H</b> Item difficulty level is high.   | ✓ Student answered item correctly.                                 | ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | ✗ Student answered item incorrectly or did not provide a response. |   |
| <b>L</b> Item difficulty level is low.    |  |   |

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Represent fraction/decimal equivalence using models. (4.3D)
		✗	‡ Compare and order fractions and decimals. (5.2B)
		✓	Identify place and value of digits in whole numbers. (4.1A)
		✓	Compare and order whole numbers. (4.1B)
		✓	Identify odd and even numbers. (5.3B)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving decimals. (5.5B)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine elapsed time. (4.9)
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✗	Identify the parts of a circle. (5.10)
		✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✗	Determine the measure of right, acute, straight, or obtuse angles. (5.12)
		✓	Solve practical problems involving metric units. (5.9B)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Predict the likelihood of outcomes of a simple event. (4.13A)
		✗	Compare different representations of the same set of data. (4.14C)
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✗	Write an equation containing a variable, given a practical situation. (5.19B)
		✓	Describe mean as a fair share. (5.17B)
		✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1471

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category	
<b>Number and Number Sense</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category	
<b>Computation and Estimation</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving decimals. (5.5B)
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	Solve practical problems involving decimals. (5.5B)
✓	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✓	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

Reporting Category	
<b>Measurement and Geometry</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	Identify the parts of a circle. (5.10)
✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✗	Classify angles as right, acute, straight, or obtuse. (5.12)
✓	Determine perimeter, area, and volume from given information. (5.8A)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)

Reporting Category	
<b>Probability, Statistics, Patterns, Functions, and Algebra</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	Determine possible outcomes of a single event. (5.15)
✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
✓	Determine possible outcomes of a single event. (5.15)
✓	Compare data in line plots and stem-and-leaf plots. (5.16C)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Identify a variable or describe an unknown quantity using a variable. (5.19A)
✓	Create a practical situation to represent a given equation. (5.19D)





**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1417

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category

**Number and Number Sense**

Item Difficulty	H	M	L	Item Descriptor and SOL Measured
		✓		‡ Compare and order fractions and decimals. (5.2B)
		✓		Identify odd and even numbers. (5.3B)

Reporting Category

**Computation and Estimation**

Item Difficulty	H	M	L	Item Descriptor and SOL Measured
	✗			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗			‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗			Solve practical problems involving whole numbers. (5.4)
	✗			Solve practical problems involving decimals. (5.5B)
	✗			Solve practical problems involving decimals. (5.5B)
	✗			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✓			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✓			‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)

Reporting Category

**Measurement and Geometry**

Item Difficulty	H	M	L	Item Descriptor and SOL Measured
	✗			Identify the parts of a circle. (5.10)
	✗			Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✗			Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
	✓			Determine perimeter, area, and volume from given information. (5.8A)
	✓			Estimate and measure an object using metric units. (5.9B)
	✓			Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty	H	M	L	Item Descriptor and SOL Measured
	✗			Determine possible outcomes of a single event. (5.15)
	✗			Calculate the mean, median, mode, or range for a set of data. (5.17D)
	✗			Identify, describe, and extend numerical patterns. (5.18)
	✗			Write an equation containing a variable, given a practical situation. (5.19B)
	✓			Determine possible outcomes of a single event. (5.15)
	✓			Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✓			Identify, describe, and extend numerical patterns. (5.18)
	✓			Create a practical situation to represent a given equation. (5.19D)



**REDACTED**

Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1435

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high. ✓ Student answered item correctly. ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
- M Item difficulty level is medium. ✗ Student answered item incorrectly or did not provide a response.
- L Item difficulty level is low.

Reporting Category

**Number and Number Sense**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Describe the characteristics of odd and even numbers. (5.3B)
	✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category

**Computation and Estimation**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗	Solve practical problems involving decimals. (5.5B)
	✗	Solve practical problems involving decimals. (5.5B)
	✓	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
	✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✓	Solve practical problems involving whole numbers. (5.4)

Reporting Category

**Measurement and Geometry**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Determine perimeter, area, and volume from given information. (5.8A)
	✗	Determine perimeter, area, and volume from given information. (5.8A)
	✗	Identify the parts of a circle. (5.10)
	✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
	✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✓	Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
	✗	Describe mean as a fair share. (5.17B)
	✗	Identify, describe, and extend numerical patterns. (5.18)
	✗	Write an equation containing a variable, given a practical situation. (5.19B)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Identify a variable or describe an unknown quantity using a variable. (5.19A)



## REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1649

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✓			Identify prime and composite numbers. (5.3A)
		✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving decimals. (5.5B)
		✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✓	Solve practical problems involving whole numbers. (5.4)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine perimeter, area, and volume from given information. (5.8A)
		✗	Classify angles as right, acute, straight, or obtuse. (5.12)
		✓	Determine perimeter, area, and volume from given information. (5.8A)
		✓	Identify equivalent measurements within the metric system. (5.9A)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Compare data in line plots and stem-and-leaf plots. (5.16C)
		✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✓	Identify a variable or describe an unknown quantity using a variable. (5.19A)
		✓	Identify a variable or describe an unknown quantity using a variable. (5.19A)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



REDACTED

Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1436

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✓			‡ Represent equivalent relationships between decimals and fractions. (5.2A)
✓			Round decimal numbers. (5.1)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving decimals. (5.5B)
		✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✓	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✗	Identify the parts of a circle. (5.10)
		✗	Describe the polygons resulting from combining or subdividing figures. (5.14B)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
		✗	Create a practical situation to represent a given equation. (5.19D)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Describe mean as a fair share. (5.17B)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



## RED/ REDACTED Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1347

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

#### Reporting Category

#### Number and Number Sense

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Use the place value structure to round whole numbers. (4.1C)
		✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✓	Identify odd and even numbers. (5.3B)

#### Reporting Category

#### Computation and Estimation

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving decimals. (5.5B)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving decimals. (5.5B)

#### Reporting Category

#### Measurement and Geometry

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✗	Identify the parts of a circle. (5.10)
		✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✗	Describe the polygons resulting from combining or subdividing figures. (5.14B)
		✓	Estimate and measure an object using metric units. (5.9B)
		✓	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)

#### Reporting Category

#### Probability, Statistics, Patterns, Functions, and Algebra

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✗	Create a practical situation to represent a given equation. (5.19D)
		✓	Describe mean as a fair share. (5.17B)
		✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



**REDACTED**

Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1523

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category			
<b>Number and Number Sense</b>			
Item Difficulty			
<b>H</b>	<b>M</b>	<b>L</b>	<b>Item Descriptor and SOL Measured</b>
		✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category			
<b>Computation and Estimation</b>			
Item Difficulty			
<b>H</b>	<b>M</b>	<b>L</b>	<b>Item Descriptor and SOL Measured</b>
		✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	Solve practical problems involving decimals. (5.5B)
		✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category			
<b>Measurement and Geometry</b>			
Item Difficulty			
<b>H</b>	<b>M</b>	<b>L</b>	<b>Item Descriptor and SOL Measured</b>
		✗	Determine perimeter, area, and volume from given information. (5.8A)
		✗	Identify the parts of a circle. (5.10)
		✗	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✗	Determine the measures of interior angles in a triangle. (5.13B)
		✓	Identify equivalent measurements within the metric system. (5.9A)
		✓	Determine the measures of interior angles in a triangle. (5.13B)

Reporting Category			
<b>Probability, Statistics, Patterns, Functions, and Algebra</b>			
Item Difficulty			
<b>H</b>	<b>M</b>	<b>L</b>	<b>Item Descriptor and SOL Measured</b>
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✗	Identify a variable or describe an unknown quantity using a variable. (5.19A)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1477

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |   |
|---|--|---|
| <b>H</b> Item difficulty level is high.   | ✓ Student answered item correctly.                                 | ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | ✗ Student answered item incorrectly or did not provide a response. |   |
| <b>L</b> Item difficulty level is low.    |  |   |

#### Reporting Category

##### Number and Number Sense

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Round decimal numbers. (5.1)
	✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

#### Reporting Category

##### Computation and Estimation

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
	✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗	Solve practical problems involving decimals. (5.5B)
	✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✓	Solve practical problems involving whole numbers. (5.4)
	✓	Solve practical problems involving decimals. (5.5B)

#### Reporting Category

##### Measurement and Geometry

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Determine the measures of interior angles in a triangle. (5.13B)
	✗	Determine perimeter, area, and volume from given information. (5.8A)
	✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✓	Solve practical problems involving metric units. (5.9B)
	✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✓	Determine the measure of right, acute, straight, or obtuse angles. (5.12)

#### Reporting Category

##### Probability, Statistics, Patterns, Functions, and Algebra

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Determine possible outcomes of a single event. (5.15)
	✗	Identify a variable or describe an unknown quantity using a variable. (5.19A)
	✗	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
	✗	Describe mean as a fair share. (5.17B)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1420

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |                                  |   |  |   |   |
|---|----------------------------------|---|--|---|---|
| H | Item difficulty level is high.   | ✓ | Student answered item correctly.                                 | ‡ | Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| M | Item difficulty level is medium. | ✗ | Student answered item incorrectly or did not provide a response. |   |   |
| L | Item difficulty level is low.    |   |  |   |   |

Reporting Category

**Number and Number Sense**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✗	Round decimal numbers. (5.1)

Reporting Category

**Computation and Estimation**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving decimals. (5.5B)
		✓	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✓	Solve practical problems involving decimals. (5.5B)
		✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

Reporting Category

**Measurement and Geometry**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✓	Determine perimeter, area, and volume from given information. (5.8A)
		✓	Identify the parts of a circle. (5.10)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Classify angles as right, acute, straight, or obtuse. (5.12)
		✓	Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
		✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✗	Create a practical situation to represent a given equation. (5.19D)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Create a practical situation to represent a given equation. (5.19D)





**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1424

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category  
**Number and Number Sense**

Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
✗	Round decimal numbers. (5.1)

Reporting Category  
**Computation and Estimation**

Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving decimals. (5.5B)
✗	Solve practical problems involving decimals. (5.5B)
✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
✓	‡ Simplify whole number numerical expressions using the order of operations. (5.7)

Reporting Category  
**Measurement and Geometry**

Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
✓	Determine perimeter, area, and volume from given information. (5.8A)
✓	Identify the parts of a circle. (5.10)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category  
**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	Determine possible outcomes of a single event. (5.15)
✗	Compare data in line plots and stem-and-leaf plots. (5.16C)
✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
✓	Determine possible outcomes of a single event. (5.15)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Write an equation containing a variable, given a practical situation. (5.19B)
✓	Create a practical situation to represent a given equation. (5.19D)



REDACTED Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1468

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category

**Number and Number Sense**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Round decimal numbers. (5.1)
		✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category

**Computation and Estimation**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
		✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
		✗	Solve practical problems involving decimals. (5.5B)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category

**Measurement and Geometry**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Solve practical problems involving metric units. (5.9B)
		✓	Determine perimeter, area, and volume from given information. (5.8A)
		✓	Identify the parts of a circle. (5.10)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
		✓	Describe the polygons resulting from combining or subdividing figures. (5.14B)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty			Item Descriptor and SOL Measured
H	M	L	
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Describe mean as a fair share. (5.17B)
		✗	Create a practical situation to represent a given equation. (5.19D)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Compare data in line plots and stem-and-leaf plots. (5.16C)
		✓	Identify, describe, and extend numerical patterns. (5.18)



**REDACTED** Student Detail by Question Report

**Student Test Details**

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1424

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category	
<b>Number and Number Sense</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✓	‡ Compare and order fractions and decimals. (5.2B)
✓	Identify prime and composite numbers. (5.3A)

Reporting Category	
<b>Computation and Estimation</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗	Solve practical problems involving decimals. (5.5B)
✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓	Solve practical problems involving whole numbers. (5.4)
✓	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

Reporting Category	
<b>Measurement and Geometry</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✗	Identify the parts of a circle. (5.10)
✗	Classify angles as right, acute, straight, or obtuse. (5.12)
✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
✓	Determine perimeter, area, and volume from given information. (5.8A)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

Reporting Category	
<b>Probability, Statistics, Patterns, Functions, and Algebra</b>	
Item Difficulty	Item Descriptor and SOL Measured
<b>H M L</b>	
✗	Determine possible outcomes of a single event. (5.15)
✗	Determine possible outcomes of a single event. (5.15)
✗	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
✗	Write an equation containing a variable, given a practical situation. (5.19B)
✓	Determine and describe range as a measure of spread for a set of data. (5.17C)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Identify, describe, and extend numerical patterns. (5.18)
✓	Write an equation containing a variable, given a practical situation. (5.19B)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1483

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

<b>H</b> Item difficulty level is high.	✓ Student answered item correctly.	‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.
<b>M</b> Item difficulty level is medium.	✗ Student answered item incorrectly or did not provide a response.	
<b>L</b> Item difficulty level is low.		

Reporting Category

**Number and Number Sense**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✓	‡ Compare and order fractions and decimals. (5.2B)
	✓	Identify prime and composite numbers. (5.3A)

Reporting Category

**Computation and Estimation**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✗	Solve practical problems involving whole numbers. (5.4)
	✗	Solve practical problems involving decimals. (5.5B)
	✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✓	Solve practical problems involving decimals. (5.5B)
	✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

Reporting Category

**Measurement and Geometry**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
	✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✗	Estimate and measure an object using metric units. (5.9B)
	✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
	✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
	✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Compare data in line plots and stem-and-leaf plots. (5.16C)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Describe mean as a fair share. (5.17B)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Write an equation containing a variable, given a practical situation. (5.19B)
	✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1477

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
	✓		‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✓		Round decimal numbers. (5.1)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving whole numbers. (5.4)
		✗	Solve practical problems involving decimals. (5.5B)
	✓		Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✓		‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✓		‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
	✓		Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Identify the parts of a circle. (5.10)
		✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
		✓	Determine perimeter, area, and volume from given information. (5.8A)
		✓	Determine perimeter, area, and volume from given information. (5.8A)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
		✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)
		✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)



REDACTED

Student Detail by Question Report

Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1404

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category

**Number and Number Sense**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
	✗	Identify odd and even numbers. (5.3B)

Reporting Category

**Computation and Estimation**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
	✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
	✗	‡ Solve single-step practical problems involving multiplication of whole numbers and proper fractions. (5.6B)
	✗	Solve practical problems involving whole numbers. (5.4)
	✗	Solve practical problems involving decimals. (5.5B)
	✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
	✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
	✓	Solve practical problems involving decimals. (5.5B)

Reporting Category

**Measurement and Geometry**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Identify the parts of a circle. (5.10)
	✗	Apply transformations to plane figures. (5.14A)
	✓	Determine perimeter, area, and volume from given information. (5.8A)
	✓	Identify equivalent measurements within the metric system. (5.9A)
	✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
	✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)

Reporting Category

**Probability, Statistics, Patterns, Functions, and Algebra**

Item Difficulty		Item Descriptor and SOL Measured
H M L		
	✗	Calculate the mean, median, mode, or range for a set of data. (5.17D)
	✗	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
	✗	Create a practical situation to represent a given equation. (5.19D)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Determine possible outcomes of a single event. (5.15)
	✓	Interpret data represented in a line plot or stem-and-leaf plot. (5.16B)
	✓	Identify, describe, and extend numerical patterns. (5.18)
	✓	Identify, describe, and extend numerical patterns. (5.18)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1550

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Identify prime and composite numbers. (5.3A)
		✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗			‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗			Solve practical problems involving whole numbers. (5.4)
✗			Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
		✓	Solve practical problems involving decimals. (5.5B)
		✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Describe the relationship between the parts of a circle. (5.10)
✗			Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Determine perimeter, area, and volume from given information. (5.8A)
		✓	Identify equivalent measurements within the metric system. (5.9A)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Determine the measure of right, acute, straight, or obtuse angles. (5.12)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
✗			Determine possible outcomes of a single event. (5.15)
✗			Compare data in line plots and stem-and-leaf plots. (5.16C)
✗			Determine and describe range as a measure of spread for a set of data. (5.17C)
✗			Identify, describe, and extend numerical patterns. (5.18)
✗			Identify a variable or describe an unknown quantity using a variable. (5.19A)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
		✓	Determine possible outcomes of a single event. (5.15)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1428

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |   |
|---|--|---|
| <b>H</b> Item difficulty level is high.   | ✓ Student answered item correctly.                                 | ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | ✗ Student answered item incorrectly or did not provide a response. |   |
| <b>L</b> Item difficulty level is low.    |  |   |

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✓	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
✓	Identify prime and composite numbers. (5.3A)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✗	‡ Simplify whole number numerical expressions using the order of operations. (5.7)
✗	Solve practical problems involving whole numbers. (5.4)
✗	Solve practical problems involving decimals. (5.5B)
✗	Solve practical problems involving decimals. (5.5B)
✓	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine perimeter, area, and volume from given information. (5.8A)
✓	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✓	Estimate and measure an object using metric units. (5.9B)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Classify angles as right, acute, straight, or obtuse. (5.12)
✓	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine possible outcomes of a single event. (5.15)
✗	Determine and describe range as a measure of spread for a set of data. (5.17C)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Translate a variable expression or equation to a verbal expression or sentence and vice versa. (5.19C)
✗	Create a practical situation to represent a given equation. (5.19D)
✓	Determine possible outcomes of a single event. (5.15)
✓	Represent data in a line plot or stem-and-leaf plot. (5.16A)
✓	Identify, describe, and extend numerical patterns. (5.18)





**REDACTED**

Student Detail by Question Report

Student Test Details

Administration State Testing Identifier	Test Name Grade	Division School	Delivery Group
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Vertical Scaled Score: 1406

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- H Item difficulty level is high.
- M Item difficulty level is medium.
- L Item difficulty level is low.
- ✓ Student answered item correctly.
- ✗ Student answered item incorrectly or did not provide a response.
- ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator.

Reporting Category			
Number and Number Sense			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)
		✓	Identify odd and even numbers. (5.3B)

Reporting Category			
Computation and Estimation			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
		✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
		✗	Solve practical problems involving decimals. (5.5B)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving whole numbers. (5.4)
		✓	Solve practical problems involving decimals. (5.5B)

Reporting Category			
Measurement and Geometry			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
		✗	Classify angles as right, acute, straight, or obtuse. (5.12)
		✓	Determine perimeter, area, and volume from given information. (5.8A)
		✓	Estimate and measure an object using metric units. (5.9B)
		✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
		✓	Classify angles as right, acute, straight, or obtuse. (5.12)

Reporting Category			
Probability, Statistics, Patterns, Functions, and Algebra			
Item Difficulty			
H	M	L	Item Descriptor and SOL Measured
		✗	Determine possible outcomes of a single event. (5.15)
		✗	Represent data in a line plot or stem-and-leaf plot. (5.16A)
		✗	Identify, describe, and extend numerical patterns. (5.18)
		✓	Determine possible outcomes of a single event. (5.15)
		✓	Describe mean as a fair share. (5.17B)
		✓	Identify, describe, and extend numerical patterns. (5.18)
		✓	Write an equation containing a variable, given a practical situation. (5.19B)
		✓	Create a practical situation to represent a given equation. (5.19D)



**REDACTED**

## Student Detail by Question Report

### Student Test Details

Administration	Test Name	Division	Delivery Group
State Testing Identifier	Grade	School	

Vertical Scaled Score: 1500

The item descriptor and level of difficulty for each test question presented to the student during this Gr 5 Mathematics Growth CAT test are grouped by reporting category and shown below.

- |   |  |   |
|---|--|---|
| <b>H</b> Item difficulty level is high.   | ✓ Student answered item correctly.                                 | ‡ Indicates the test item was administered in a section of the test where the students were not provided with a calculator. |
| <b>M</b> Item difficulty level is medium. | ✗ Student answered item incorrectly or did not provide a response. |   |
| <b>L</b> Item difficulty level is low.    |  |   |

Reporting Category	
Number and Number Sense	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Represent equivalent relationships between decimals and fractions. (5.2A)

Reporting Category	
Computation and Estimation	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✗	‡ Evaluate single-step expressions involving multiplication and division of decimals. (5.5A)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)
✓	‡ Identify the operation or step used while applying the order of operations to whole number numerical expressions. (5.7)
✓	Solve practical problems involving whole numbers. (5.4)
✓	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving decimals. (5.5B)
✓	Solve practical problems involving addition and subtraction of fractions and mixed numbers. (5.6A)

Reporting Category	
Measurement and Geometry	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Classify triangles as right, acute, obtuse, equilateral, scalene, or isosceles. (5.13A)
✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✗	Determine the appropriate application of area, perimeter, or volume when given a situation. (5.8B)
✓	Identify the parts of a circle. (5.10)
✓	Solve elapsed time problems, including start time, end time, and elapsed time over a 24 hour period. (5.11)
✓	Apply transformations to plane figures. (5.14A)

Reporting Category	
Probability, Statistics, Patterns, Functions, and Algebra	
Item Difficulty	Item Descriptor and SOL Measured
H M L	
✗	Determine possible outcomes of a single event. (5.15)
✗	Determine possible outcomes of a single event. (5.15)
✗	Identify, describe, and extend numerical patterns. (5.18)
✗	Identify, describe, and extend numerical patterns. (5.18)
✓	Write an equation containing a variable, given a practical situation. (5.19B)
✓	Create a practical situation to represent a given equation. (5.19D)
✓	Compare data in line plots and stem-and-leaf plots. (5.16C)
✓	Describe mean as a fair share. (5.17B)