

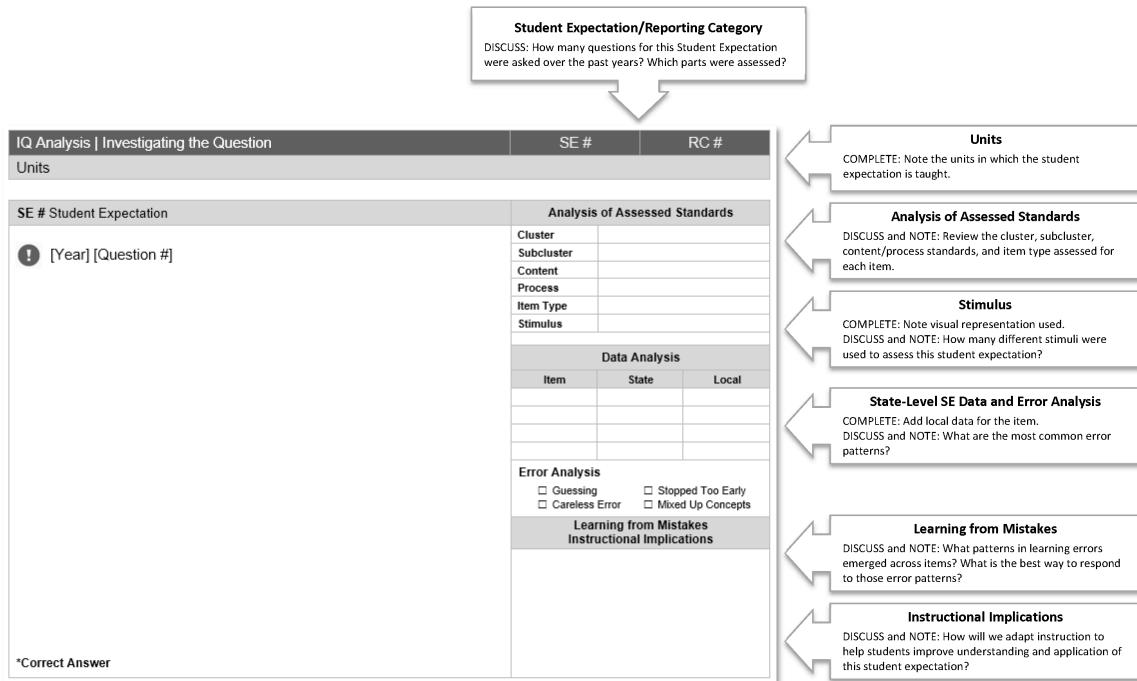
# **2022-2025 Released Tests**

## Aligned to the Standards

CONTENT BUILDER FOR THE PLC

# **Math**

# **Grade 3**



In conjunction with the IQ analysis tool, the lead4ward field guides can be a helpful resource for understanding error patterns and instructional implications.

[Learn more](#)

# Representation and Comparison of Whole Numbers

**3.2 Number and operations.** The student applies mathematical process standards to represent and compare whole numbers and understand relationships related to place value.

<p><b>3.2(A)</b> compose and decompose numbers up to 100,000 as a sum of so many ten thousands, so many thousands, so many hundreds, so many tens, and so many ones using objects, pictorial models, and numbers, including expanded notation as appropriate</p> <p>2025 – Q1</p> <p>Which expressions are equivalent to 15,090?</p> <p>Select <b>TWO</b> correct answers.</p> <p><input type="checkbox"/> 1,000 + 5,000 + 900</p> <p><input type="checkbox"/> 15,000 + 90</p> <p><input type="checkbox"/> 1,000 + 5,000 + 90</p> <p><input type="checkbox"/> 15,000 + 900</p> <p><input type="checkbox"/> 10,000 + 5,000 + 90</p>	<p><b>Analysis of Assessed Standards</b></p> <table border="1"><tr><td><b>Cluster</b></td><td>Representation and Comparison of Whole Numbers</td></tr><tr><td><b>Subcluster</b></td><td>Representation of Whole Numbers</td></tr><tr><td><b>Content</b></td><td>Readiness</td></tr><tr><td><b>Process</b></td><td></td></tr><tr><td><b>Item Type</b></td><td>Multiselect (2 pts)</td></tr><tr><td><b>Stimulus</b></td><td></td></tr></table> <p><b>Data Analysis</b></p> <table border="1"><thead><tr><th>Item</th><th>State</th><th>Local</th></tr></thead><tbody><tr><td>Full Credit</td><td>73</td><td></td></tr><tr><td>No Credit</td><td>5</td><td></td></tr><tr><td>Partial Credit</td><td>22</td><td></td></tr></tbody></table> <p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>	<b>Cluster</b>	Representation and Comparison of Whole Numbers	<b>Subcluster</b>	Representation of Whole Numbers	<b>Content</b>	Readiness	<b>Process</b>		<b>Item Type</b>	Multiselect (2 pts)	<b>Stimulus</b>		Item	State	Local	Full Credit	73		No Credit	5		Partial Credit	22	
<b>Cluster</b>	Representation and Comparison of Whole Numbers																								
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No Credit	5																								
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\*Correct Answer (2nd option; 5th option)

**3.2(A)** compose and decompose numbers up to 100,000 as a sum of so many ten thousands, so many thousands, so many hundreds, so many tens, and so many ones using objects, pictorial models, and numbers, including expanded notation as appropriate

#### Analysis of Assessed Standards

! 2025 – Q24

Evie finds the sum of 70 hundreds, 1 ten, and 15 ones.

What number represents Evie's sum?

(A) 70,025

(B) 7,025

(C) 70,115

(D) 7,015

Cluster	Representation and Comparison of Whole Numbers
Subcluster	Representation of Whole Numbers
Content	Readiness
Process	
Item Type	Multiple Choice (1 pt)
Stimulus	

#### Data Analysis

Item	State	Local
A		
B*	39	
C		
D		

#### Error Analysis

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

\*Correct Answer (B)

**3.2(A)** compose and decompose numbers up to 100,000 as a sum of so many ten thousands, so many thousands, so many hundreds, so many tens, and so many ones using objects, pictorial models, and numbers, including expanded notation as appropriate

#### Analysis of Assessed Standards

2024 – Q30

Create an expression equivalent to 40,280.

Move the correct answer to each box. Not all answers will be used.

hundreds    ten thousands    ones    thousands    tens

4 [ ] + 2 [ ] + 8 [ ]

<b>Cluster</b>	Representation and Comparison of Whole Numbers
<b>Subcluster</b>	Representation of Whole Numbers
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Drag and Drop (2 pts)
<b>Stimulus</b>	

#### Data Analysis

Item	State	Local
Full Credit	70	
No Credit	22	
Partial Credit	8	

#### Error Analysis

- Guessing     Mixed Up Concepts  
 Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

\*Correct Answer (ten thousands; hundreds; tens)

**3.2(A)** compose and decompose numbers up to 100,000 as a sum of so many ten thousands, so many thousands, so many hundreds, so many tens, and so many ones using objects, pictorial models, and numbers, including expanded notation as appropriate

**Analysis of Assessed Standards**

! 2023 – Q28

Which answer choice describes the number 9,140?

- (A) The sum of nine thousands and fourteen ones
- (B) The sum of nine thousands, one hundred, and forty tens
- (C) The sum of nine thousands, one hundred, and four tens
- (D) The sum of nine thousands, one hundred, and four ones

<b>Cluster</b>	Representation and Comparison of Whole Numbers
<b>Subcluster</b>	Representation of Whole Numbers
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Multiple Choice (1 pt)
<b>Stimulus</b>	

**Data Analysis**

Item	State	Local
A	6	
B	31	
C*	59	
D	4	

**Error Analysis**

- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

**Learning from Mistakes  
Instructional Implications**

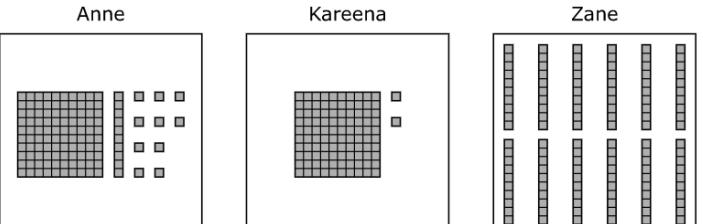
\*Correct Answer (C)

<p><b>3.2(A)</b> compose and decompose numbers up to 100,000 as a sum of so many ten thousands, so many thousands, so many hundreds, so many tens, and so many ones using objects, pictorial models, and numbers, including expanded notation as appropriate</p>	<p><b>Analysis of Assessed Standards</b></p>																		
<p>2022 – Q24</p>	<table border="1"> <tr> <td><b>Cluster</b></td><td>Representation and Comparison of Whole Numbers</td></tr> <tr> <td><b>Subcluster</b></td><td>Representation of Whole Numbers</td></tr> <tr> <td><b>Content</b></td><td>Readiness</td></tr> <tr> <td><b>Process</b></td><td></td></tr> <tr> <td><b>Stimulus</b></td><td></td></tr> </table>	<b>Cluster</b>	Representation and Comparison of Whole Numbers	<b>Subcluster</b>	Representation of Whole Numbers	<b>Content</b>	Readiness	<b>Process</b>		<b>Stimulus</b>									
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<b>Content</b>	Readiness																		
<b>Process</b>																			
<b>Stimulus</b>																			
<p><b>24</b> An expression is shown.</p> $5 + 700 + 40$	<table border="1"> <tr> <td colspan="3"><b>Data Analysis</b></td></tr> <tr> <td><b>Item</b></td><td><b>State</b></td><td><b>Local</b></td></tr> <tr> <td>745</td><td>81*</td><td></td></tr> <tr> <td></td><td>19</td><td></td></tr> <tr> <td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td></tr> </table>	<b>Data Analysis</b>			<b>Item</b>	<b>State</b>	<b>Local</b>	745	81*			19							
<b>Data Analysis</b>																			
<b>Item</b>	<b>State</b>	<b>Local</b>																	
745	81*																		
	19																		
<p>What number is equivalent to this expression?</p> <p>Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.</p> <p>*Correct Answer (745)</p>	<table border="1"> <tr> <td><b>Error Analysis</b></td></tr> <tr> <td><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts</td></tr> <tr> <td><input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</td></tr> <tr> <td><b>Learning from Mistakes</b></td></tr> <tr> <td><b>Instructional Implications</b></td></tr> </table>	<b>Error Analysis</b>	<input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts	<input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early	<b>Learning from Mistakes</b>	<b>Instructional Implications</b>													
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<b>Instructional Implications</b>																			

<b>3.2(B)</b> describe the mathematical relationships found in the base-10 place value system through the hundred thousands place		<b>Analysis of Assessed Standards</b>	
<b>!</b> 2025 – Q27		<b>Cluster</b>	Representation and Comparison of Whole Numbers
A number is shown.	858,386	<b>Subcluster</b>	Representation of Whole Numbers
Compare the value of 8 in each place value.		<b>Content</b>	Supporting
Choose the correct answer from each drop-down menu to complete the sentences.		<b>Process</b>	
The value of the 8 in the hundred thousands place is <input type="text"/> times greater than the value of the 8 in the thousands place.		<b>Item Type</b>	Inline Choice (2 pts)
The value of the 8 in the hundred thousands place is <input type="text"/> times greater than the value of the 8 in the tens place.		<b>Stimulus</b>	
<b>Data Analysis</b>			
<b>Item</b>	<b>State</b>	<b>Local</b>	
Full Credit	11		
No Credit	60		
Partial Credit	29		
<b>Error Analysis</b>			
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
<b>Learning from Mistakes</b> <b>Instructional Implications</b>			
*Correct Answer (100; 10,000)			

<b>3.2(B)</b> describe the mathematical relationships found in the base-10 place value system through the hundred thousands place	<b>Analysis of Assessed Standards</b>		
<b>!</b> 2024 – Q4	<b>Cluster</b>	Representation and Comparison of Whole Numbers	
What is the relationship between the thousands place and the tens place in the number shown?	<b>Subcluster</b>	Representation of Whole Numbers	
583,436	<b>Content</b>	Supporting	
	<b>Process</b>		
	<b>Item Type</b>	Multiple Choice (1 pt)	
	<b>Stimulus</b>		
<b>Data Analysis</b>			
	<b>Item</b>	<b>State</b>	<b>Local</b>
A			
B			
C*	35		
D			
<b>Error Analysis</b>			
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
<b>Learning from Mistakes</b>			
<b>Instructional Implications</b>			

\*Correct Answer (C)

<p><b>3.2(B)</b> describe the mathematical relationships found in the base-10 place value system through the hundred thousands place</p> <p>! 2023 – Q20</p> <p>Three students made models to represent numbers. The models are shown.</p>  <p>Which models represent the same number?</p> <p>(A) Anne's model and Kareena's model, because 1 hundred, 1 ten, and 10 ones is equivalent to 1 hundred and 2 ones</p> <p>(B) Kareena's model and Zane's model, because 1 hundred and 2 ones is equivalent to 12 tens</p> <p>(C) Anne's model and Zane's model, because 1 hundred, 1 ten, and 10 ones is equivalent to 12 tens</p> <p>(D) None of the models</p>	<p><b>Analysis of Assessed Standards</b></p> <table border="1"> <tr> <td><b>Cluster</b></td><td>Representation and Comparison of Whole Numbers</td></tr> <tr> <td><b>Subcluster</b></td><td>Representation of Whole Numbers</td></tr> <tr> <td><b>Content</b></td><td>Supporting</td></tr> <tr> <td><b>Process</b></td><td></td></tr> <tr> <td><b>Item Type</b></td><td>Multiple Choice (1 pt)</td></tr> <tr> <td><b>Stimulus</b></td><td></td></tr> </table> <p><b>Data Analysis</b></p> <table border="1"> <thead> <tr> <th>Item</th><th>State</th><th>Local</th></tr> </thead> <tbody> <tr> <td>A</td><td>16</td><td></td></tr> <tr> <td>B</td><td>15</td><td></td></tr> <tr> <td>C*</td><td>53</td><td></td></tr> <tr> <td>D</td><td>17</td><td></td></tr> </tbody> </table> <p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing    <input type="checkbox"/> Mixed Up Concepts</p> <p><input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>	<b>Cluster</b>	Representation and Comparison of Whole Numbers	<b>Subcluster</b>	Representation of Whole Numbers	<b>Content</b>	Supporting	<b>Process</b>		<b>Item Type</b>	Multiple Choice (1 pt)	<b>Stimulus</b>		Item	State	Local	A	16		B	15		C*	53		D	17	
<b>Cluster</b>	Representation and Comparison of Whole Numbers																											
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<b>Stimulus</b>																												
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A	16																											
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C*	53																											
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3.2(D) compare and order whole numbers up to 100,000 and represent comparisons using the symbols >, <, or =		Analysis of Assessed Standards	
2025 – Q9		<b>Cluster</b>	Representation and Comparison of Whole Numbers
The table shows the number of seats in four stadiums.		<b>Subcluster</b>	Comparison of Whole Numbers
		<b>Content</b>	Readiness
		<b>Process</b>	
		<b>Item Type</b>	Inline Choice (2 pts)
		<b>Stimulus</b>	
		<b>Data Analysis</b>	
		<b>Item</b>	<b>State</b>
		Full Credit	72
		No Credit	14
		Partial Credit	14
		<b>Error Analysis</b>	
		<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts
		<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
<b>Learning from Mistakes Instructional Implications</b>			
*Correct Answer (Stadium X; Stadium Y)			

<b>3.2(D)</b> compare and order whole numbers up to 100,000 and represent comparisons using the symbols >, <, or =	<b>Analysis of Assessed Standards</b>		
2025 – Q30	<b>Cluster</b>	Representation and Comparison of Whole Numbers	
Emilia compares three numbers. One of the numbers is missing, as shown.	<b>Subcluster</b>	Comparison of Whole Numbers	
$46,523 < \boxed{\phantom{000}} < 46,779$	<b>Content</b>	Readiness	
	<b>Process</b>		
	<b>Item Type</b>	Multiple Choice (1 pt)	
	<b>Stimulus</b>		
	<b>Data Analysis</b>		
	<b>Item</b>	<b>State</b>	<b>Local</b>
	A		
	B		
	C*	60	
	D		
	<b>Error Analysis</b>		
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early	
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

\*Correct Answer (C)

**3.2(D)** compare and order whole numbers up to 100,000 and represent comparisons using the symbols >, <, or =

**Analysis of Assessed Standards**

2024 – Q2

<b>Cluster</b>	Representation and Comparison of Whole Numbers
<b>Subcluster</b>	Comparison of Whole Numbers
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Multiple Choice (1 pt)
<b>Stimulus</b>	

This list shows three clues about a number:

- The number is greater than 89,236.
- The number is less than 91,103.
- The number has a digit greater than 7 in the thousands place.

Which of these could be the number?

(A) 88,598

(B) 91,057

(C) 89,099

(D) 89,572

**Data Analysis**

Item	State	Local
A		
B		
C		
D*	59	

**Error Analysis**

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

**Learning from Mistakes**  
**Instructional Implications**

\*Correct Answer (D)

<p><b>3.2(D)</b> compare and order whole numbers up to 100,000 and represent comparisons using the symbols &gt;, &lt;, or =</p> <p>! 2023 – Q13</p> <p>Which list contains only numbers that belong between 5,090 and 6,300 on a number line?</p> <p>(A) <span style="border: 1px solid black; padding: 5px;">53,450 54,258 61,988</span></p> <p>(B) <span style="border: 1px solid black; padding: 5px;">5,009 5,894 6,132</span></p> <p>(C) <span style="border: 1px solid black; padding: 5px;">5,450 6,215 6,381</span></p> <p>(D) <span style="border: 1px solid black; padding: 5px;">5,746 6,099 6,211</span></p>	<p><b>Analysis of Assessed Standards</b></p> <table border="1"> <tr> <td><b>Cluster</b></td><td>Representation and Comparison of Whole Numbers</td></tr> <tr> <td><b>Subcluster</b></td><td>Comparison of Whole Numbers</td></tr> <tr> <td><b>Content</b></td><td>Readiness</td></tr> <tr> <td><b>Process</b></td><td></td></tr> <tr> <td><b>Item Type</b></td><td>Multiple Choice (1 pt)</td></tr> <tr> <td><b>Stimulus</b></td><td></td></tr> </table> <p><b>Data Analysis</b></p> <table border="1"> <thead> <tr> <th>Item</th><th>State</th><th>Local</th></tr> </thead> <tbody> <tr> <td>A</td><td>10</td><td></td></tr> <tr> <td>B</td><td>33</td><td></td></tr> <tr> <td>C</td><td>15</td><td></td></tr> <tr> <td>D*</td><td>42</td><td></td></tr> </tbody> </table> <p><b>Error Analysis</b></p> <table> <tr> <td><input type="checkbox"/> Guessing</td><td><input type="checkbox"/> Mixed Up Concepts</td></tr> <tr> <td><input type="checkbox"/> Careless Error</td><td><input type="checkbox"/> Stopped Too Early</td></tr> </table> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>	<b>Cluster</b>	Representation and Comparison of Whole Numbers	<b>Subcluster</b>	Comparison of Whole Numbers	<b>Content</b>	Readiness	<b>Process</b>		<b>Item Type</b>	Multiple Choice (1 pt)	<b>Stimulus</b>		Item	State	Local	A	10		B	33		C	15		D*	42		<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
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\*Correct Answer (D)

**3.2(D)** compare and order whole numbers up to 100,000 and represent comparisons using the symbols >, <, or =

**Analysis of Assessed Standards**

! 2023 – Q25

A table with the areas of four states is shown.

**State Areas**

State	Area (square miles)
Connecticut	4,845
Vermont	9,624
Hawaii	6,423
New Hampshire	9,350

Which list represents the areas of the states ordered from least to greatest?

- A Vermont, New Hampshire, Hawaii, Connecticut
- B Connecticut, Hawaii, New Hampshire, Vermont
- C Connecticut, Hawaii, Vermont, New Hampshire
- D New Hampshire, Hawaii, Vermont, Connecticut

\*Correct Answer (B)

**Cluster** Representation and Comparison of Whole Numbers

**Subcluster** Comparison of Whole Numbers

**Content** Readiness

**Process**

**Item Type** Multiple Choice (1 pt)

**Stimulus**

**Data Analysis**

Item	State	Local
A	20	
B*	67	
C	9	
D	4	

**Error Analysis**

- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

**Learning from Mistakes  
Instructional Implications**

<b>3.2(D)</b> compare and order whole numbers up to 100,000 and represent comparisons using the symbols >, <, or =	<b>Analysis of Assessed Standards</b>															
2022 – Q1	<b>Cluster</b> Representation and Comparison of Whole Numbers															
	<b>Subcluster</b> Comparison of Whole Numbers															
	<b>Content</b> Readiness															
	<b>Process</b>															
	<b>Stimulus</b>															
	<b>Data Analysis</b>															
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Item	State	Local														
A	4															
B	3															
C*	87															
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	<input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early															
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>															

\*Correct Answer (C)

<p><b>3.2(D)</b> compare and order whole numbers up to 100,000 and represent comparisons using the symbols <math>&gt;</math>, <math>&lt;</math>, or <math>=</math></p> <p>2022 – Q19</p> <p><b>19</b> Four students with number cards want to line up from left to right in order from least to greatest number.</p> <p>Which statement is true?</p> <ul style="list-style-type: none"> <li><b>A</b> Olivia should be between Erin and Rico.</li> <li><b>B</b> Erin should be on the right end after Olivia.</li> <li><b>C</b> Penelope should be on the right end after Olivia.</li> <li><b>D</b> All the students are in the correct order.</li> </ul> <p>*Correct Answer (C)</p>	<table border="1"> <thead> <tr> <th colspan="2">Analysis of Assessed Standards</th> </tr> </thead> <tbody> <tr> <td>Cluster</td> <td>Representation and Comparison of Whole Numbers</td> </tr> <tr> <td>Subcluster</td> <td>Comparison of Whole Numbers</td> </tr> <tr> <td>Content</td> <td>Readiness</td> </tr> <tr> <td>Process</td> <td></td> </tr> <tr> <td>Stimulus</td> <td></td> </tr> <tr> <th colspan="2">Data Analysis</th> </tr> <tr> <th>Item</th> <th>State</th> <th>Local</th> </tr> <tr> <td>A</td> <td>12</td> <td></td> </tr> <tr> <td>B</td> <td>10</td> <td></td> </tr> <tr> <td>C*</td> <td>71</td> <td></td> </tr> <tr> <td>D</td> <td>7</td> <td></td> </tr> <tr> <th colspan="3">Error Analysis</th> </tr> <tr> <td><input type="checkbox"/> Guessing</td> <td><input type="checkbox"/> Mixed Up Concepts</td> </tr> <tr> <td><input type="checkbox"/> Careless Error</td> <td><input type="checkbox"/> Stopped Too Early</td> </tr> <tr> <th colspan="3">Learning from Mistakes Instructional Implications</th> </tr> </tbody> </table>	Analysis of Assessed Standards		Cluster	Representation and Comparison of Whole Numbers	Subcluster	Comparison of Whole Numbers	Content	Readiness	Process		Stimulus		Data Analysis		Item	State	Local	A	12		B	10		C*	71		D	7		Error Analysis			<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early	Learning from Mistakes Instructional Implications		
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3.2(C) represent a number on a number line as being between two consecutive multiples of 10; 100; 1,000; or 10,000 and use words to describe relative size of numbers in order to round whole numbers		Analysis of Assessed Standards	
<b>!</b>	2024 – Q8	Cluster	Representation and Comparison of Whole Numbers
	Michel plots a point on a number line to represent a number. The point is more than halfway between 200 and 300.	Subcluster	Rounding of Whole Numbers
		Content	Supporting
		Process	
		Item Type	Multiple Choice (1 pt)
		Stimulus	
Data Analysis			
Item	State	Local	
A			
B			
C*	23		
D			
Error Analysis			
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
Learning from Mistakes Instructional Implications			
*Correct Answer (C)			

# Fractions

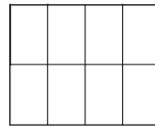
**3.3 Number and operations.** The student applies mathematical process standards to represent and explain fractional units.

**Connected Knowledge and Skills 3.6, 3.7**

3.3(B) determine the corresponding fraction greater than zero and less than or equal to one with denominators of 2, 3, 4, 6, and 8 given a specified point on a number line		Analysis of Assessed Standards	
2025 – Q3		Cluster	Fractions
		Subcluster	Representation of Fractions
		Content	Supporting
		Process	
		Item Type	Multiple Choice (1 pt)
		Stimulus	
Data Analysis			
Item	State	Local	
A			
B			
C			
D*	71		
Error Analysis			
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
Learning from Mistakes Instructional Implications			
*Correct Answer (D)			

3.3(E) solve problems involving partitioning an object or a set of objects among two or more recipients using pictorial representations of fractions with denominators of 2, 3, 4, 6, and 8		Analysis of Assessed Standards			
<b>!</b> 2025 – Q19	A school chooses 4 students to paint an entire wall. The model shown represents the wall divided into equal parts.	<b>Cluster</b>	Fractions		
		<b>Subcluster</b>	Representation of Fractions		
		<b>Content</b>	Supporting		
		<b>Process</b>			
		<b>Item Type</b>	Multiple Choice (1 pt)		
		<b>Stimulus</b>			
<b>Data Analysis</b>					
	<b>Item</b>	<b>State</b>	<b>Local</b>		
	A				
	B				
	C				
	D*	50			
<b>Error Analysis</b>					
<input type="checkbox"/> Guessing		<input type="checkbox"/> Mixed Up Concepts			
<input type="checkbox"/> Careless Error		<input type="checkbox"/> Stopped Too Early			
<b>Learning from Mistakes</b> <b>Instructional Implications</b>					

\*Correct Answer (D)



Each student will paint the same amount of the wall.

What fraction of the wall will each student paint?

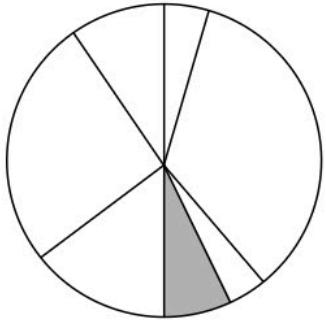
(A)  $\frac{1}{8}$

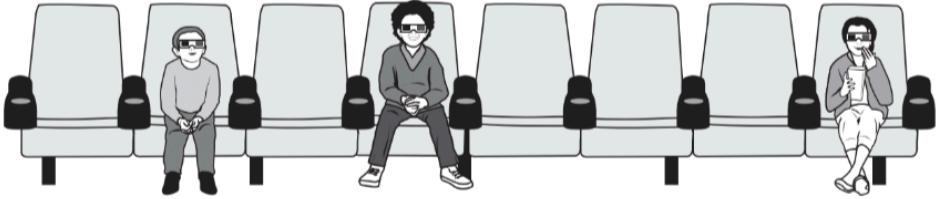
(B)  $\frac{4}{8}$

(C)  $\frac{12}{8}$

(D)  $\frac{2}{8}$

<b>3.3(E)</b> solve problems involving partitioning an object or a set of objects among two or more recipients using pictorial representations of fractions with denominators of 2, 3, 4, 6, and 8	<b>Analysis of Assessed Standards</b>	
2022 – Q15	<b>Cluster</b>	Fractions
<b>15</b> Carter and Dane shared a package of 8 baseballs equally.	<b>Subcluster</b>	Representation of Fractions
	<b>Content</b>	Supporting
	<b>Process</b>	
	<b>Stimulus</b>	
	<b>Data Analysis</b>	
	<b>Item</b>	<b>State</b>
A $\frac{2}{8}$	A	19
B $\frac{4}{4}$	B	9
C $\frac{4}{1}$	C	2
D $\frac{4}{8}$	D*	71
	<b>Error Analysis</b>	
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
*Correct Answer (D)	<b>Learning from Mistakes</b> <b>Instructional Implications</b>	

<p><b>3.3(C)</b> explain that the unit fraction <math>1/b</math> represents the quantity formed by one part of a whole that has been partitioned into <math>b</math> equal parts where <math>b</math> is a non-zero whole number</p> <p>! 2024 – Q10</p> <p>Byron draws the fraction model shown.</p>  <p>He claims that the shaded part represents <math>\frac{1}{7}</math> of the whole model.</p> <p>Complete the statement to describe Byron's claim.</p> <p>Choose the correct answer from each drop-down menu to complete the sentence.</p> <p>Byron's claim is <input type="text"/> because <math>\frac{1}{7}</math> of a model should be represented by 1 shaded part <input type="text"/></p> <p>*Correct Answer (incorrect; out of 7 equal parts)</p>	<p><b>Analysis of Assessed Standards</b></p> <table border="1"><tr><td><b>Cluster</b></td><td>Fractions</td></tr><tr><td><b>Subcluster</b></td><td>Unit Fractions</td></tr><tr><td><b>Content</b></td><td>Supporting</td></tr><tr><td><b>Process</b></td><td></td></tr><tr><td><b>Item Type</b></td><td>Inline Choice (1 pt)</td></tr><tr><td><b>Stimulus</b></td><td></td></tr></table> <p><b>Data Analysis</b></p> <table border="1"><thead><tr><th>Item</th><th>State</th><th>Local</th></tr></thead><tbody><tr><td>Full Credit</td><td>56</td><td></td></tr><tr><td>No Credit</td><td>44</td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table> <p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing    <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>	<b>Cluster</b>	Fractions	<b>Subcluster</b>	Unit Fractions	<b>Content</b>	Supporting	<b>Process</b>		<b>Item Type</b>	Inline Choice (1 pt)	<b>Stimulus</b>		Item	State	Local	Full Credit	56		No Credit	44										
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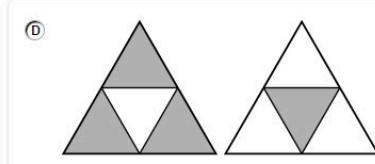
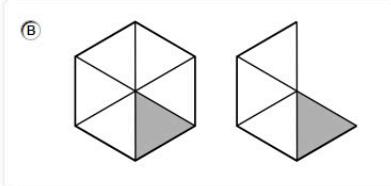
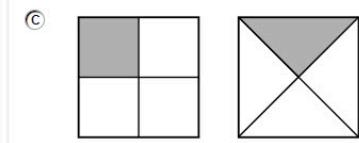
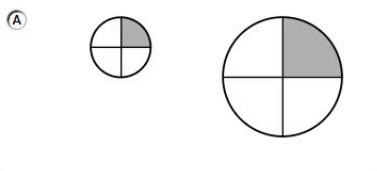
<p><b>3.3(D)</b> compose and decompose a fraction <math>a/b</math> with a numerator greater than zero and less than or equal to <math>b</math> as a sum of parts <math>1/b</math></p>	<p><b>Analysis of Assessed Standards</b></p>															
<p>2022 – Q10</p> <p><b>10</b> The picture shows 8 seats in a movie theater. Children are sitting in a fraction of the seats.</p>	<table border="1"> <tr> <td><b>Cluster</b></td><td>Fractions</td></tr> <tr> <td><b>Subcluster</b></td><td>Unit Fractions</td></tr> <tr> <td><b>Content</b></td><td>Supporting</td></tr> <tr> <td><b>Process</b></td><td></td></tr> <tr> <td><b>Stimulus</b></td><td></td></tr> </table>	<b>Cluster</b>	Fractions	<b>Subcluster</b>	Unit Fractions	<b>Content</b>	Supporting	<b>Process</b>		<b>Stimulus</b>						
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Item	State	Local														
F	6															
G	10															
H	15															
J*	68															
<p>Which expression is equivalent to the fraction of the seats that have children sitting in them?</p> <p><b>F</b> <math>\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}</math></p> <p><b>G</b> <math>\frac{1}{3} + \frac{1}{3} + \frac{1}{3}</math></p> <p><b>H</b> <math>\frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8}</math></p> <p><b>J</b> <math>\frac{1}{8} + \frac{1}{8} + \frac{1}{8}</math></p> <p>*Correct Answer (J)</p>	<p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts</p> <p><input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>															

**3.6(E)** decompose two congruent two-dimensional figures into parts with equal areas and express the area of each part as a unit fraction of the whole and recognize that equal shares of identical wholes need not have the same shape

! 2024 – Q16

Calvin draws two congruent figures. He shades an equal area of each figure.

Which figures could be Calvin's?



\*Correct Answer (C)

#### Analysis of Assessed Standards

Cluster	Fractions
Subcluster	Unit Fractions
Content	Supporting
Process	
Item Type	Multiple Choice (1 pt)
Stimulus	

#### Data Analysis

Item	State	Local
A		
B		
C*	42	
D		

#### Error Analysis

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

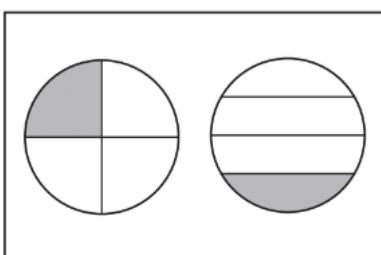
**3.6(E)** decompose two congruent two-dimensional figures into parts with equal areas and express the area of each part as a unit fraction of the whole and recognize that equal shares of identical wholes need not have the same shape

! 2022 – Q29

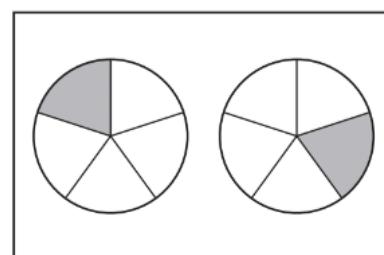
- 29** Derrick drew two congruent figures and then shaded  $\frac{1}{4}$  of each figure.

Which figures could be the ones Derrick drew and shaded?

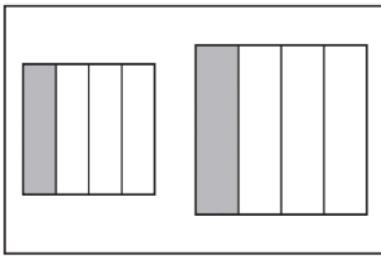
**A**



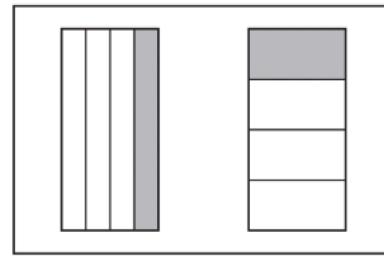
**C**



**B**



**D**



\*Correct Answer (D)

#### Analysis of Assessed Standards

Cluster	Fractions
Subcluster	Unit Fractions
Content	Supporting
Process	
Stimulus	

#### Data Analysis

Item	State	Local
A	35	
B	23	
C	13	
D*	28	

#### Error Analysis

- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

**3.3(F)** represent equivalent fractions with denominators of 2, 3, 4, 6, and 8 using a variety of objects and pictorial models, including number lines

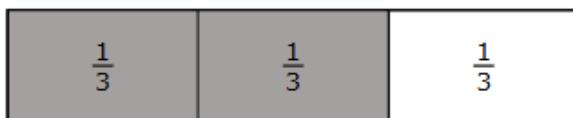
### Analysis of Assessed Standards

Cluster	Fractions
Subcluster	Equivalency of Fractions
Content	Readiness
Process	
Item Type	Multiple Choice (1 pt)
Stimulus	

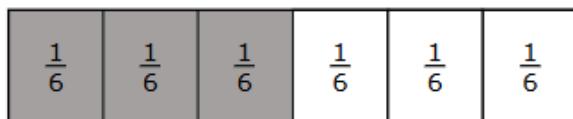
! 2025 – Q18

Which fraction strip shows a shaded area equivalent to  $\frac{4}{6}$ ?

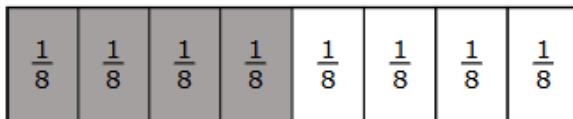
(A)



(B)



(C)



(D)



### Data Analysis

Item	State	Local
A*	50	
B		
C		
D		

### Error Analysis

- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

### Learning from Mistakes Instructional Implications

\*Correct Answer (A)

**3.3(F)** represent equivalent fractions with denominators of 2, 3, 4, 6, and 8 using a variety of objects and pictorial models, including number lines

#### Analysis of Assessed Standards

2024 – Q23

Cluster	Fractions
Subcluster	Equivalency of Fractions
Content	Readiness
Process	
Item Type	Multiselect (2 pts)
Stimulus	

Point F on the number line shown represents a fraction.



Which fractions can be represented by point F?

Select **TWO** correct answers.

$\frac{1}{2}$

$\frac{2}{3}$

$\frac{1}{3}$

$\frac{2}{6}$

$\frac{2}{4}$

#### Data Analysis

Item	State	Local
Full Credit	33	
No Credit	17	
Partial Credit	50	

#### Error Analysis

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

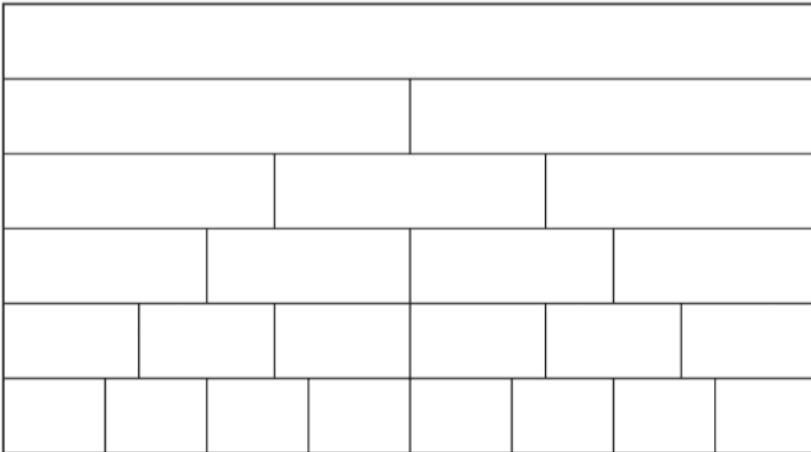
\*Correct Answer (C, D)

<p><b>3.3(F)</b> represent equivalent fractions with denominators of 2, 3, 4, 6, and 8 using a variety of objects and pictorial models, including number lines</p>	<p><b>Analysis of Assessed Standards</b></p>															
<p>2023 – Q30</p>	<b>Cluster</b>	Fractions														
	<b>Subcluster</b>	Equivalency of Fractions														
	<b>Content</b>	Readiness														
	<b>Process</b>															
	<b>Item Type</b>	Multiple Choice (1 pt)														
	<b>Stimulus</b>															
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	<table border="1"> <thead> <tr> <th data-bbox="1106 739 1204 781">Item</th><th data-bbox="1204 739 1334 781">State</th><th data-bbox="1334 739 1512 781">Local</th></tr> </thead> <tbody> <tr> <td data-bbox="1106 781 1204 916">A</td><td data-bbox="1204 781 1334 916">12</td><td data-bbox="1334 781 1512 916"></td></tr> <tr> <td data-bbox="1106 916 1204 1051">B*</td><td data-bbox="1204 916 1334 1051">67</td><td data-bbox="1334 916 1512 1051"></td></tr> <tr> <td data-bbox="1106 1051 1204 1186">C</td><td data-bbox="1204 1051 1334 1186">10</td><td data-bbox="1334 1051 1512 1186"></td></tr> <tr> <td data-bbox="1106 1186 1204 1229">D</td><td data-bbox="1204 1186 1334 1229">11</td><td data-bbox="1334 1186 1512 1229"></td></tr> </tbody> </table>	Item	State	Local	A	12		B*	67		C	10		D	11	
Item	State	Local														
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	<p><b>Learning from Mistakes</b>  <b>Instructional Implications</b></p>															
<p>*Correct Answer (B)</p>																

**3.3(F)** represent equivalent fractions with denominators of 2, 3, 4, 6, and 8 using a variety of objects and pictorial models, including number lines

2022 – Q26

**26** The fraction strips shown can be used to find equivalent fractions.



Which fraction is equivalent to  $\frac{2}{4}$ ?

**F**  $\frac{1}{2}$

**G**  $\frac{2}{6}$

**H**  $\frac{3}{4}$

**J**  $\frac{1}{3}$

\*Correct Answer (F)

#### Analysis of Assessed Standards

Cluster	Fractions
Subcluster	Equivalency of Fractions
Content	Readiness
Process	
Stimulus	

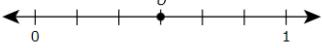
#### Data Analysis

Item	State	Local
F*	67	
G	14	
H	14	
J	4	

#### Error Analysis

- Guessing     Mixed Up Concepts  
 Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

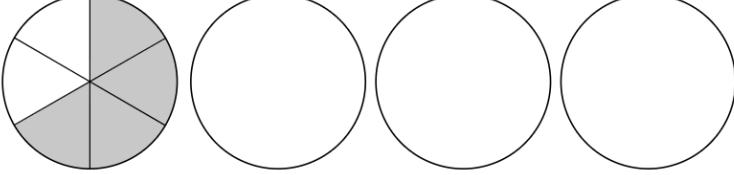
<p><b>3.3(G)</b> explain that two fractions are equivalent if and only if they are both represented by the same point on the number line or represent the same portion of a same size whole for an area model</p>	<p><b>Analysis of Assessed Standards</b></p>															
<p>! 2023 – Q18</p> <p>Point <i>U</i> on the number line represents equivalent fractions.</p> 	<table border="1"> <tr> <td><b>Cluster</b></td><td>Fractions</td></tr> <tr> <td><b>Subcluster</b></td><td>Equivalency of Fractions</td></tr> <tr> <td><b>Content</b></td><td>Supporting</td></tr> <tr> <td><b>Process</b></td><td></td></tr> <tr> <td><b>Item Type</b></td><td>Inline Choice (2 pts)</td></tr> <tr> <td><b>Stimulus</b></td><td></td></tr> </table>	<b>Cluster</b>	Fractions	<b>Subcluster</b>	Equivalency of Fractions	<b>Content</b>	Supporting	<b>Process</b>		<b>Item Type</b>	Inline Choice (2 pts)	<b>Stimulus</b>				
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<b>Process</b>																
<b>Item Type</b>	Inline Choice (2 pts)															
<b>Stimulus</b>																
<p>What is true about point <i>U</i>?</p> <p>Complete the sentences by selecting the correct answers from the drop-down menus.</p> <p>Point <i>U</i> can represent <input type="text"/> or <input type="text"/> The two fractions are equal because they both <input type="text"/></p>	<p><b>Data Analysis</b></p> <table border="1"> <thead> <tr> <th>Item</th><th>State</th><th>Local</th></tr> </thead> <tbody> <tr> <td>Full Credit</td><td>28</td><td></td></tr> <tr> <td>No Credit</td><td>41</td><td></td></tr> <tr> <td>Partial Credit</td><td>31</td><td></td></tr> <tr> <td></td><td></td><td></td></tr> </tbody> </table>	Item	State	Local	Full Credit	28		No Credit	41		Partial Credit	31				
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No Credit	41															
Partial Credit	31															
<p>*Correct Answer (3/6, 1/2, are exactly halfway between zero and 1)</p>	<p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts  <input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p> <p><b>Learning from Mistakes</b>  <b>Instructional Implications</b></p>															

		Analysis of Assessed Standards	
<b>!</b>	2025 – Q15	<b>Cluster</b>	Fractions
		<b>Subcluster</b>	Comparison of Fractions
		<b>Content</b>	Readiness
		<b>Process</b>	
		<b>Item Type</b>	Multiple Choice (1 pt)
		<b>Stimulus</b>	
Data Analysis			
Item	State	Local	
A*	60		
B			
C			
D			
Error Analysis			
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
Learning from Mistakes Instructional Implications			
<b>*Correct Answer (A)</b>			

<p><b>3.3(H)</b> compare two fractions having the same numerator or denominator in problems by reasoning about their sizes and justifying the conclusion using symbols, words, objects, and pictorial models</p>	<b>Analysis of Assessed Standards</b>	
2024 – Q25	<b>Cluster</b>	Fractions
Serena and Ricky each have a milkshake. The two milkshakes are the same size.	<b>Subcluster</b>	Comparison of Fractions
<ul style="list-style-type: none"> <li>• Serena drinks <math>\frac{5}{6}</math> of her milkshake.</li> <li>• Ricky drinks <math>\frac{5}{8}</math> of his milkshake.</li> </ul>	<b>Content</b>	Readiness
Compare the amounts that Serena and Ricky drink.	<b>Process</b>	
Choose the correct answer from each drop-down menu to complete the sentence.	<b>Item Type</b>	Inline Choice (2 pts)
Serena drinks <input type="button" value="▼"/> Ricky because <input type="button" value="▼"/>	<b>Stimulus</b>	
<b>Data Analysis</b>		
<b>Item</b>	<b>State</b>	<b>Local</b>
Full Credit	46	
No Credit	33	
Partial Credit	21	
<b>Error Analysis</b>		
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early	
<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

\*Correct Answer (more of a milkshake than; sixths are larger than eighths)

3.3(H) compare two fractions having the same numerator or denominator in problems by reasoning about their sizes and justifying the conclusion using symbols, words, objects, and pictorial models		Analysis of Assessed Standards		
2023 – Q1	Cluster	Fractions		
	Subcluster	Comparison of Fractions		
	Content	Readiness		
	Process			
	Item Type	Multiple Choice (1 pt)		
	Stimulus			
Data Analysis				
	Item	State	Local	
	A*	68		
	B	5		
	C	13		
	D	14		
Error Analysis				
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
Learning from Mistakes Instructional Implications				
* Correct Answer (A)				

<p><b>3.3(H)</b> compare two fractions having the same numerator or denominator in problems by reasoning about their sizes and justifying the conclusion using symbols, words, objects, and pictorial models</p>	<p><b>Analysis of Assessed Standards</b></p>																									
<p>! 2023 – Q23</p> <p>Hector has four circles that are the same size. He divided and shaded the first circle to represent the fraction <math>\frac{4}{6}</math>.</p> 	<table border="1"> <tr> <td>Cluster</td><td>Fractions</td></tr> <tr> <td>Subcluster</td><td>Comparison of Fractions</td></tr> <tr> <td>Content</td><td>Readiness</td></tr> <tr> <td>Process</td><td></td></tr> <tr> <td>Item Type</td><td>Multiple Choice (1 pt)</td></tr> <tr> <td>Stimulus</td><td></td></tr> </table>	Cluster	Fractions	Subcluster	Comparison of Fractions	Content	Readiness	Process		Item Type	Multiple Choice (1 pt)	Stimulus														
Cluster	Fractions																									
Subcluster	Comparison of Fractions																									
Content	Readiness																									
Process																										
Item Type	Multiple Choice (1 pt)																									
Stimulus																										
<p>Hector will correctly divide and shade the other circles to represent fractions less than <math>\frac{4}{6}</math>.</p> <p>Which answer choice is NOT a way Hector could divide and shade a circle to represent a fraction less than <math>\frac{4}{6}</math>?</p> <p>(A) He could divide a circle into 6 equal parts and shade 1 of the parts.</p> <p>(B) He could divide a circle into 8 equal parts and shade 4 of the parts.</p> <p>(C) He could divide a circle into 4 equal parts and shade 4 of the parts.</p> <p>(D) He could divide a circle into 6 equal parts and shade 3 of the parts.</p>	<p><b>Data Analysis</b></p> <table border="1"> <thead> <tr> <th>Item</th><th>State</th><th>Local</th></tr> </thead> <tbody> <tr> <td>A</td><td>22</td><td></td></tr> <tr> <td>B</td><td>30</td><td></td></tr> <tr> <td>C*</td><td>36</td><td></td></tr> <tr> <td>D</td><td>12</td><td></td></tr> </tbody> </table> <p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing    <input type="checkbox"/> Mixed Up Concepts  <input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>	Item	State	Local	A	22		B	30		C*	36		D	12											
Item	State	Local																								
A	22																									
B	30																									
C*	36																									
D	12																									
<p>*Correct Answer (C)</p>																										
<p><b>3.3(H)</b> compare two fractions having the same numerator or denominator in problems by reasoning about their sizes and justifying the conclusion using symbols, words, objects, and pictorial models</p> <p>2022 – Q3</p> <p><b>3</b> A student measured the lengths of two worms.</p> <ul style="list-style-type: none"> <li>• Worm S was <math>\frac{1}{2}</math> foot long.</li> <li>• Worm T was <math>\frac{2}{2}</math> foot long.</li> </ul> <p>Which statement is true?</p> <p><b>A</b> The length of Worm S is greater than the length of Worm T.</p> <p><b>B</b> The length of Worm T is greater than the length of Worm S.</p> <p><b>C</b> The length of Worm S is equal to the length of Worm T.</p> <p><b>D</b> There is not enough information to compare the lengths of the worms.</p> <p>*Correct Answer (B)</p>	<p><b>Analysis of Assessed Standards</b></p> <table border="1"> <tr> <td>Cluster</td><td>Fractions</td></tr> <tr> <td>Subcluster</td><td>Comparison of Fractions</td></tr> <tr> <td>Content</td><td>Readiness</td></tr> <tr> <td>Process</td><td></td></tr> <tr> <td>Stimulus</td><td></td></tr> </table> <p><b>Data Analysis</b></p> <table border="1"> <thead> <tr> <th>Item</th><th>State</th><th>Local</th></tr> </thead> <tbody> <tr> <td>A</td><td>13</td><td></td></tr> <tr> <td>B*</td><td>78</td><td></td></tr> <tr> <td>C</td><td>6</td><td></td></tr> <tr> <td>D</td><td>3</td><td></td></tr> </tbody> </table> <p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing    <input type="checkbox"/> Mixed Up Concepts  <input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>	Cluster	Fractions	Subcluster	Comparison of Fractions	Content	Readiness	Process		Stimulus		Item	State	Local	A	13		B*	78		C	6		D	3	
Cluster	Fractions																									
Subcluster	Comparison of Fractions																									
Content	Readiness																									
Process																										
Stimulus																										
Item	State	Local																								
A	13																									
B*	78																									
C	6																									
D	3																									



# Addition and Subtraction of Whole Numbers

**3.4 Number and operations.** The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve problems with efficiency and accuracy.

**3.5 Algebraic reasoning.** The student applies mathematical process standards to analyze and create patterns and relationships.

<p><b>3.4(A)</b> solve with fluency one-step and two-step problems involving addition and subtraction within 1,000 using strategies based on place value, properties of operations, and the relationship between addition and subtraction</p>	<p><b>Analysis of Assessed Standards</b></p>																							
<p>2025 – Q6</p>	<p><b>Cluster</b> Addition and Subtraction of Whole Numbers  <b>Subcluster</b> Addition/Subtraction of Whole Numbers  <b>Content</b> Readiness  <b>Process</b></p>																							
<p>Tina hikes in the summer, winter, and fall. She records how many hours she spends hiking in a table, as shown.</p>	<p><b>Item Type</b> Multiple Choice (1 pt)  <b>Stimulus</b></p>																							
<p><b>Time Spent Hiking</b></p> <table border="1" data-bbox="512 443 731 580"> <thead> <tr> <th>Season</th> <th>Time (hours)</th> </tr> </thead> <tbody> <tr> <td>Summer</td> <td>360</td> </tr> <tr> <td>Fall</td> <td>610</td> </tr> <tr> <td>Winter</td> <td>344</td> </tr> </tbody> </table>	Season	Time (hours)	Summer	360	Fall	610	Winter	344	<p><b>Data Analysis</b></p> <table border="1" data-bbox="1122 601 1506 813"> <thead> <tr> <th>Item</th> <th>State</th> <th>Local</th> </tr> </thead> <tbody> <tr> <td>A</td> <td></td> <td></td> </tr> <tr> <td>B</td> <td></td> <td></td> </tr> <tr> <td>C*</td> <td>52</td> <td></td> </tr> <tr> <td>D</td> <td></td> <td></td> </tr> </tbody> </table>	Item	State	Local	A			B			C*	52		D		
Season	Time (hours)																							
Summer	360																							
Fall	610																							
Winter	344																							
Item	State	Local																						
A																								
B																								
C*	52																							
D																								
<p>How many more hours does Tina hike during summer and winter combined than in the fall?</p>	<p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts  <input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p>																							
<p>(A) 704 hours  (B) 250 hours  (C) 94 hours  (D) 114 hours</p>	<p><b>Learning from Mistakes</b>  <b>Instructional Implications</b></p>																							
<p>*Correct Answer (C)</p>																								

**3.4(A)** solve with fluency one-step and two-step problems involving addition and subtraction within 1,000 using strategies based on place value, properties of operations, and the relationship between addition and subtraction

#### Analysis of Assessed Standards

Cluster	Addition and Subtraction of Whole Numbers
Subcluster	Addition/Subtraction of Whole Numbers
Content	Readiness
Process	
Item Type	Equation Editor (1 pt)
Stimulus	

! 2025 – Q16

Kasey bought two bags of beads.

- One bag contained 250 beads.
- The other bag contained 400 beads.

Kasey used all but 36 of the total number of beads for an art project.

What was the total number of beads that Kasey used for the art project?

Enter your answer in the box.

\*Correct Answer (614)

#### Data Analysis

Item	State	Local
Full Credit	39	
No Credit	61	

#### Error Analysis

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

**3.4(A)** solve with fluency one-step and two-step problems involving addition and subtraction within 1,000 using strategies based on place value, properties of operations, and the relationship between addition and subtraction

#### Analysis of Assessed Standards

2024 – Q1

A school had 375 hot dogs to sell during a carnival. After the carnival ended, 83 hot dogs were not sold.

How many hot dogs were sold during the carnival?

(A) 292

(B) 312

(C) 458

(D) 282

Cluster	Addition and Subtraction of Whole Numbers
Subcluster	Addition/Subtraction of Whole Numbers
Content	Readiness
Process	
Item Type	Multiple Choice (1 pt)
Stimulus	

#### Data Analysis

Item	State	Local
A*	69	
B		
C		
D		

#### Error Analysis

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

\*Correct Answer (A)

**3.4(A)** solve with fluency one-step and two-step problems involving addition and subtraction within 1,000 using strategies based on place value, properties of operations, and the relationship between addition and subtraction

**Analysis of Assessed Standards**

! 2024 – Q22

At a weekend bake sale, 295 cookies were sold on Saturday. On Sunday 88 more cookies were sold than were sold on Saturday.

What was the total number of cookies sold on Saturday and Sunday?

(A) 207

(B) 383

(C) 502

(D) 678

<b>Cluster</b>	Addition and Subtraction of Whole Numbers
<b>Subcluster</b>	Addition/Subtraction of Whole Numbers
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Multiple Choice (1 pt)
<b>Stimulus</b>	

**Data Analysis**

Item	State	Local
A		
B		
C		
D*	21	

**Error Analysis**

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

**Learning from Mistakes**  
**Instructional Implications**

\*Correct Answer (D)

**3.4(A)** solve with fluency one-step and two-step problems involving addition and subtraction within 1,000 using strategies based on place value, properties of operations, and the relationship between addition and subtraction

#### Analysis of Assessed Standards

! 2023 – Q9

Ms. Green had some fabric to make costumes for three different plays at school. The table shows the number of yards of fabric Ms. Green used to make the costumes for each play.

Fabric Used

Play	Fabric (yards)
X	69
Y	48
Z	53

Ms. Green had 27 yards of fabric left over after making costumes for these plays. How many yards of fabric did Ms. Green start with?

- (A) 170 yards
- (B) 197 yards
- (C) 143 yards
- (D) 177 yards

<b>Cluster</b>	Addition and Subtraction of Whole Numbers
<b>Subcluster</b>	Addition/Subtraction of Whole Numbers
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Multiple Choice (1 pt)
<b>Stimulus</b>	

#### Data Analysis

Item	State	Local
A	51	
B*	29	
C	13	
D	6	

#### Error Analysis

- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

\*Correct Answer (B)

**3.4(A)** solve with fluency one-step and two-step problems involving addition and subtraction within 1,000 using strategies based on place value, properties of operations, and the relationship between addition and subtraction

#### Analysis of Assessed Standards

2023 – Q17

Last month the school store sold 107 T-shirts and 88 sweatshirts.

How many more T-shirts were sold than sweatshirts?

(A) 19

(B) 29

(C) 185

(D) 195

Cluster	Addition and Subtraction of Whole Numbers
Subcluster	Addition/Subtraction of Whole Numbers
Content	Readiness
Process	
Item Type	Multiple Choice (1 pt)
Stimulus	

#### Data Analysis

Item	State	Local
A*	60	
B	17	
C	8	
D	15	

#### Error Analysis

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

\*Correct Answer (A)

**3.4(A)** solve with fluency one-step and two-step problems involving addition and subtraction within 1,000 using strategies based on place value, properties of operations, and the relationship between addition and subtraction

**Analysis of Assessed Standards**

2022 – Q17

<b>Cluster</b>	Addition and Subtraction of Whole Numbers
<b>Subcluster</b>	Addition/Subtraction of Whole Numbers
<b>Content</b>	Readiness
<b>Process</b>	
<b>Stimulus</b>	

A movie theater has 710 seats.

- 158 seats are red.
- 247 seats are black.
- 119 seats are yellow.
- The rest of the seats are green.

How many seats are green?

**Data Analysis**

Item	State	Local
A*	55	
B	23	
C	12	
D	10	

**Error Analysis**

- Guessing     Mixed Up Concepts  
 Careless Error     Stopped Too Early

**Learning from Mistakes**  
**Instructional Implications**

(A) 186

(B) 524

(C) 214

(D) 206

\*Correct Answer (A)

**3.4(A)** solve with fluency one-step and two-step problems involving addition and subtraction within 1,000 using strategies based on place value, properties of operations, and the relationship between addition and subtraction

**Analysis of Assessed Standards**

2022 – Q32

**32** At the beginning of September, Mr. Watkins had 543 erasers.

- During September he gave his students 99 of the erasers.
- During October he gave his students 212 of the erasers.

How many erasers did Mr. Watkins have at the end of October?

**F** 854

**G** 232

**H** 430

**J** 344

<b>Cluster</b>	Addition and Subtraction of Whole Numbers
<b>Subcluster</b>	Addition/Subtraction of Whole Numbers
<b>Content</b>	Readiness
<b>Process</b>	
<b>Stimulus</b>	

**Data Analysis**

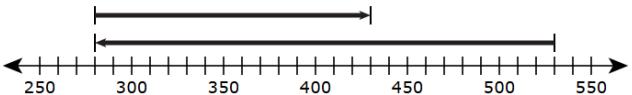
Item	State	Local
F	15	
G*	66	
H	7	
J	11	

**Error Analysis**

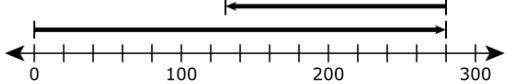
- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

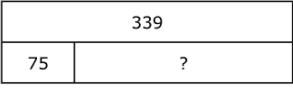
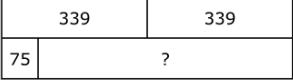
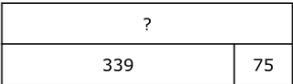
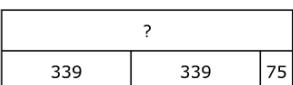
**Learning from Mistakes**  
**Instructional Implications**

\*Correct Answer (G)

<p><b>3.5(A)</b> represent one- and two-step problems involving addition and subtraction of whole numbers to 1,000 using pictorial models, number lines, and equations</p>	<p><b>Analysis of Assessed Standards</b></p>															
<p><b>!</b> 2025 – Q14</p> <p>A library has 530 books at the start of the day. The number line shown can be used to find the number of books the library has at the end of the day.</p> 	<table border="1"> <tr> <td><b>Cluster</b></td><td>Addition and Subtraction of Whole Numbers</td></tr> <tr> <td><b>Subcluster</b></td><td>Addition/Subtraction of Whole Numbers</td></tr> <tr> <td><b>Content</b></td><td>Readiness</td></tr> <tr> <td><b>Process</b></td><td></td></tr> <tr> <td><b>Item Type</b></td><td>Multiple Choice (1 pt)</td></tr> <tr> <td><b>Stimulus</b></td><td></td></tr> </table>	<b>Cluster</b>	Addition and Subtraction of Whole Numbers	<b>Subcluster</b>	Addition/Subtraction of Whole Numbers	<b>Content</b>	Readiness	<b>Process</b>		<b>Item Type</b>	Multiple Choice (1 pt)	<b>Stimulus</b>				
<b>Cluster</b>	Addition and Subtraction of Whole Numbers															
<b>Subcluster</b>	Addition/Subtraction of Whole Numbers															
<b>Content</b>	Readiness															
<b>Process</b>																
<b>Item Type</b>	Multiple Choice (1 pt)															
<b>Stimulus</b>																
<p>Which statement is best represented by the number line?</p> <p>(A) 250 books are returned and 150 books are borrowed.</p> <p>(B) 250 books are borrowed. Another 150 books are borrowed.</p> <p>(C) 250 books are returned. Another 150 books are returned.</p> <p>(D) 250 books are borrowed and 150 books are returned.</p>	<p><b>Data Analysis</b></p> <table border="1"> <thead> <tr> <th>Item</th><th>State</th><th>Local</th></tr> </thead> <tbody> <tr> <td>A</td><td></td><td></td></tr> <tr> <td>B</td><td></td><td></td></tr> <tr> <td>C</td><td></td><td></td></tr> <tr> <td>D*</td><td>38</td><td></td></tr> </tbody> </table> <p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts</p> <p><input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>	Item	State	Local	A			B			C			D*	38	
Item	State	Local														
A																
B																
C																
D*	38															
<p>*Correct Answer (D)</p>																

<b>3.5(A)</b> represent one- and two-step problems involving addition and subtraction of whole numbers to 1,000 using pictorial models, number lines, and equations	<b>Analysis of Assessed Standards</b>				
2024 – Q7	<b>Cluster</b>	Addition and Subtraction of Whole Numbers			
Jada is traveling to visit her aunt who lives 789 miles away. She needs to travel 321 more miles to arrive at her aunt's house.	<b>Subcluster</b>	Addition/Subtraction of Whole Numbers			
Which representations can be used to find the number of miles Jada has already traveled?	<b>Content</b>	Readiness			
Select <b>TWO</b> correct answers.	<b>Process</b>				
<input type="checkbox"/> 321 – □ = 789	<b>Item Type</b>	Multiselect (2 pts)			
<input type="checkbox"/> 321 + □ = 789	<b>Stimulus</b>				
<input type="checkbox"/> 789 + 321 = □	<b>Data Analysis</b>				
<input type="checkbox"/> <table border="1"><tr><td>?</td></tr><tr><td>789</td><td>321</td></tr></table>	?	789	321	<b>Item</b>	State
?					
789	321				
<input type="checkbox"/> <table border="1"><tr><td>789</td></tr><tr><td>?</td><td>321</td></tr></table>	789	?	321	Full Credit	40
789					
?	321				
	No Credit	21			
	Partial Credit	39			
	<b>Error Analysis</b>				
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts			
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early			
*Correct Answer (B, E)	<b>Learning from Mistakes</b> <b>Instructional Implications</b>				

<b>3.5(A)</b> represent one- and two-step problems involving addition and subtraction of whole numbers to 1,000 using pictorial models, number lines, and equations	<b>Analysis of Assessed Standards</b>					
<b>!</b> 2023 – Q7	<b>Cluster</b>	Addition and Subtraction of Whole Numbers				
A cafeteria had 280 ice-cream bars. During lunch some of the ice-cream bars were sold. After lunch 130 ice-cream bars were left over.	<b>Subcluster</b>	Addition/Subtraction of Whole Numbers				
Which answer choice best represents one way to find the number of ice-cream bars sold during lunch?	<b>Content</b>	Readiness				
(A) $\square - 280 = 130$	<b>Process</b>					
(B)	<b>Item Type</b>	Multiple Choice (1 pt)				
<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 50%;">280</td> <td style="width: 50%;">130</td> </tr> <tr> <td colspan="2">?</td> </tr> </table>	280	130	?		<b>Stimulus</b>	
280	130					
?						
(C) $280 + \square = 130$	<b>Data Analysis</b>					
(D)	<b>Item</b>	<b>State</b>	<b>Local</b>			
	A	39				
	B	24				
	C	5				
	D*	31				
<b>*Correct Answer (D)</b>	<b>Error Analysis</b>					
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts				
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early				
	<b>Learning from Mistakes</b>					
	<b>Instructional Implications</b>					

<b>3.5(A)</b> represent one- and two-step problems involving addition and subtraction of whole numbers to 1,000 using pictorial models, number lines, and equations	<b>Analysis of Assessed Standards</b>		
<b>!</b> 2023 – Q24	<b>Cluster</b>	Addition and Subtraction of Whole Numbers	
Two friends played a game. The first friend scored 339 points. The second friend scored 75 more points than the first friend.	<b>Subcluster</b>	Addition/Subtraction of Whole Numbers	
Which strip diagram can be used to find the total number of points both friends scored?	<b>Content</b>	Readiness	
<p>(A) </p> <p>(B) </p> <p>(C) </p> <p>(D) </p>	<b>Process</b>		
	<b>Item Type</b>	Multiple Choice (1 pt)	
	<b>Stimulus</b>		
	<b>Data Analysis</b>		
	<b>Item</b>	<b>State</b>	<b>Local</b>
	A	36	
	B	8	
	C	49	
	D*	8	
<b>*Correct Answer (D)</b>	<b>Error Analysis</b>		
	<input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early		
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

<p><b>3.5(A)</b> represent one- and two-step problems involving addition and subtraction of whole numbers to 1,000 using pictorial models, number lines, and equations</p> <p>2022 – Q21</p> <p><b>21</b> The total number of keys on a computer keyboard is 87.</p> <ul style="list-style-type: none"> <li>There are 26 letter keys and 21 special symbol keys on the keyboard.</li> <li>The rest of the keys are function keys.</li> </ul> <p>Which model represents one way to find the number of function keys on the keyboard?</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Data Analysis</th> </tr> <tr> <th style="text-align: center;">Item</th><th style="text-align: center;">State</th><th style="text-align: center;">Local</th></tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>A</b></td><td style="text-align: center;">13</td><td></td></tr> <tr> <td style="text-align: center;"><b>B*</b></td><td style="text-align: center;">67</td><td></td></tr> <tr> <td style="text-align: center;"><b>C</b></td><td style="text-align: center;">11</td><td></td></tr> <tr> <td style="text-align: center;"><b>D</b></td><td style="text-align: center;">9</td><td></td></tr> </tbody> </table> <p><b>Error Analysis</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><input type="checkbox"/> Guessing</td><td style="width: 50%;"><input type="checkbox"/> Mixed Up Concepts</td></tr> <tr> <td><input type="checkbox"/> Careless Error</td><td><input type="checkbox"/> Stopped Too Early</td></tr> </table> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>	Data Analysis			Item	State	Local	<b>A</b>	13		<b>B*</b>	67		<b>C</b>	11		<b>D</b>	9		<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
Data Analysis																							
Item	State	Local																					
<b>A</b>	13																						
<b>B*</b>	67																						
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<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts																						
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early																						
<p><b>A</b></p> <p><b>B</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;">87</td> </tr> <tr> <td style="text-align: center;">26</td><td style="text-align: center;">21</td><td style="text-align: center;">?</td> </tr> </table> <p><b>C</b></p> <p><b>D</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;">?</td> </tr> <tr> <td style="text-align: center;">26</td><td style="text-align: center;">21</td><td style="text-align: center;">87</td> </tr> </table>	87			26	21	?	?			26	21	87											
87																							
26	21	?																					
?																							
26	21	87																					

\*Correct Answer (B)

<b>3.4(B)</b> round to the nearest 10 or 100 or use compatible numbers to estimate solutions to addition and subtraction problems		<b>Analysis of Assessed Standards</b>																	
<p>2025 – Q29</p> <p>Andrea has 67 green marbles and 54 blue marbles. She rounds each number to the nearest ten to estimate how many marbles she has in total.</p> <p>Complete the sentences to show how Andrea estimates the total.</p> <p>Move the correct answer to each box. Each answer may be used more than once. Not all answers will be used.</p> <p>70    50    130    60    110    120</p> <p>She rounds 67 green marbles to [     ].</p> <p>She rounds 54 blue marbles to [     ].</p> <p>Andrea estimates she has [     ] marbles in total.</p>	<b>Cluster</b>	Addition and Subtraction of Whole Numbers																	
	<b>Subcluster</b>	Estimation of Whole Numbers																	
	<b>Content</b>	Supporting																	
	<b>Process</b>																		
	<b>Item Type</b>	Drag and Drop (2 pts)																	
	<b>Stimulus</b>																		
<b>Data Analysis</b>		<b>Item</b>	<b>State</b>	<b>Local</b>															
<table border="1"> <tr> <td data-bbox="1117 601 1224 633"><b>Full Credit</b></td><td data-bbox="1224 601 1330 633">53</td><td data-bbox="1330 601 1493 633"></td></tr> <tr> <td data-bbox="1117 644 1224 675"><b>No Credit</b></td><td data-bbox="1224 644 1330 675">36</td><td data-bbox="1330 644 1493 675"></td></tr> <tr> <td data-bbox="1117 686 1224 718"><b>Partial Credit</b></td><td data-bbox="1224 686 1330 718">11</td><td data-bbox="1330 686 1493 718"></td></tr> <tr> <td data-bbox="1117 728 1224 760"></td><td data-bbox="1224 728 1330 760"></td><td data-bbox="1330 728 1493 760"></td></tr> <tr> <td data-bbox="1117 770 1224 802"></td><td data-bbox="1224 770 1330 802"></td><td data-bbox="1330 770 1493 802"></td></tr> </table>		<b>Full Credit</b>	53		<b>No Credit</b>	36		<b>Partial Credit</b>	11								<b>Full Credit</b>	53	
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<b>No Credit</b>	36																		
<b>Partial Credit</b>	11																		
<table border="1"> <tr> <td data-bbox="1117 749 1224 781"><b>No Credit</b></td><td data-bbox="1224 749 1330 781">36</td><td data-bbox="1330 749 1493 781"></td></tr> <tr> <td data-bbox="1117 792 1224 823"><b>Partial Credit</b></td><td data-bbox="1224 792 1330 823">11</td><td data-bbox="1330 792 1493 823"></td></tr> <tr> <td data-bbox="1117 834 1224 865"></td><td data-bbox="1224 834 1330 865"></td><td data-bbox="1330 834 1493 865"></td></tr> <tr> <td data-bbox="1117 876 1224 908"></td><td data-bbox="1224 876 1330 908"></td><td data-bbox="1330 876 1493 908"></td></tr> </table>		<b>No Credit</b>	36		<b>Partial Credit</b>	11								<b>Partial Credit</b>	11				
<b>No Credit</b>	36																		
<b>Partial Credit</b>	11																		
<b>Error Analysis</b>		<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts																
		<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early																
<b>Learning from Mistakes</b>		<b>Instructional Implications</b>																	

<b>3.4(B)</b> round to the nearest 10 or 100 or use compatible numbers to estimate solutions to addition and subtraction problems	<b>Analysis of Assessed Standards</b>		
2024 – Q17	<b>Cluster</b>	Addition and Subtraction of Whole Numbers	
Eliza rode her bike on three days last week.	<b>Subcluster</b>	Estimation of Whole Numbers	
<ul style="list-style-type: none"> <li>• On Tuesday, she rode 12 miles.</li> <li>• On Thursday, she rode 9 miles.</li> <li>• On Saturday, she rode 7 miles.</li> </ul>	<b>Content</b>	Supporting	
	<b>Process</b>		
	<b>Item Type</b>	Multiple Choice (1 pt)	
	<b>Stimulus</b>		
<b>Data Analysis</b>			
	<b>Item</b>	<b>State</b>	<b>Local</b>
(A) 10 mi	A		
(B) 30 mi	B*	61	
(C) 40 mi	C		
(D) 20 mi	D		
<b>Error Analysis</b>			
<input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early			
<b>Learning from Mistakes</b> <b>Instructional Implications</b>			

\*Correct Answer (B)

3.5(E) represent real-world relationships using number pairs in a table and verbal descriptions			Analysis of Assessed Standards			
<b>!</b> 2023 – Q12			<b>Cluster</b>	Addition and Subtraction of Whole Numbers		
Isabel sells clothing online. She sends a free gift with each order. The table shows the number of items ordered and the number of items sent for three orders, X, Y, and Z.			<b>Subcluster</b>	Numerical Patterns		
			<b>Content</b>	Readiness		
			<b>Process</b>			
			<b>Item Type</b>	Inline Choice (2 pts)		
			<b>Stimulus</b>			
<b>Data Analysis</b>						
	<b>Item</b>	<b>State</b>	<b>Local</b>			
The number of items ordered	<input type="text"/>	<input type="text"/> ◊ the number	<input type="text"/> ◊ equals the number of items sent.	<b>Full Credit</b>	51	
				<b>No Credit</b>	24	
				<b>Partial Credit</b>	25	
<b>Error Analysis</b>						
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts				
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early				
<b>Learning from Mistakes</b> <b>Instructional Implications</b>						
*Correct Answer (plus, 1)						

3.5(E) represent real-world relationships using number pairs in a table and verbal descriptions			Analysis of Assessed Standards																	
2022 – Q9	Cluster	Addition and Subtraction of Whole Numbers																		
9 The table shows the numbers of tomato plants and spinach plants in five different gardens.	Subcluster	Numerical Patterns																		
Garden Plants	Content	Readiness																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Garden</th><th>Number of Tomato Plants</th><th>Number of Spinach Plants</th></tr> </thead> <tbody> <tr> <td>K</td><td>34</td><td>43</td></tr> <tr> <td>L</td><td>26</td><td>35</td></tr> <tr> <td>M</td><td>38</td><td>47</td></tr> <tr> <td>N</td><td>29</td><td>38</td></tr> <tr> <td>P</td><td>45</td><td>54</td></tr> </tbody> </table>	Garden	Number of Tomato Plants	Number of Spinach Plants	K	34	43	L	26	35	M	38	47	N	29	38	P	45	54	Process	
Garden	Number of Tomato Plants	Number of Spinach Plants																		
K	34	43																		
L	26	35																		
M	38	47																		
N	29	38																		
P	45	54																		
Based on the relationship shown in the table, which statement is true?	Stimulus																			
<p>A There are 9 more spinach plants than tomato plants in each garden.</p> <p>B There are 9 fewer spinach plants than tomato plants in each garden.</p> <p>C There are 8 more spinach plants than tomato plants in each garden.</p> <p>D There are 8 fewer spinach plants than tomato plants in each garden.</p>	Data Analysis																			
	Item	State	Local																	
	A*	74																		
	B	12																		
	C	10																		
	D	5																		
*Correct Answer (A)	Error Analysis																			
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts																		
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early																		
	Learning from Mistakes Instructional Implications																			

# Multiplication and Division of Whole Numbers

**3.4 Number and operations.** The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve problems with efficiency and accuracy.

**3.5 Algebraic reasoning.** The student applies mathematical process standards to analyze and create patterns and relationships.

**Connected Knowledge and Skills 3.6**

<p><b>3.4(D)</b> determine the total number of objects when equally-sized groups of objects are combined or arranged in arrays up to 10 by 10</p>	<p><b>Analysis of Assessed Standards</b></p>																
<p>! 2024 – Q11</p> <p>There are 8 squares on each row of a game board. One row of the game board is shown.</p> 	<table border="1"> <tr> <td><b>Cluster</b></td><td>Multiplication and Division of Whole Numbers</td></tr> <tr> <td><b>Subcluster</b></td><td>Multiplication of Whole Numbers</td></tr> <tr> <td><b>Content</b></td><td>Supporting</td></tr> <tr> <td><b>Process</b></td><td></td></tr> <tr> <td><b>Item Type</b></td><td>Multiple Choice (1 pt)</td></tr> <tr> <td><b>Stimulus</b></td><td></td></tr> </table>	<b>Cluster</b>	Multiplication and Division of Whole Numbers	<b>Subcluster</b>	Multiplication of Whole Numbers	<b>Content</b>	Supporting	<b>Process</b>		<b>Item Type</b>	Multiple Choice (1 pt)	<b>Stimulus</b>					
<b>Cluster</b>	Multiplication and Division of Whole Numbers																
<b>Subcluster</b>	Multiplication of Whole Numbers																
<b>Content</b>	Supporting																
<b>Process</b>																	
<b>Item Type</b>	Multiple Choice (1 pt)																
<b>Stimulus</b>																	
<p>How many squares are on 8 rows of the game board?</p> <p>(A) 56</p> <p>(B) 8</p> <p>(C) 16</p> <p>(D) 64</p> <p>*Correct Answer (D)</p>	<p><b>Data Analysis</b></p> <table border="1"> <thead> <tr> <th>Item</th><th>State</th><th>Local</th></tr> </thead> <tbody> <tr> <td>A</td><td></td><td></td></tr> <tr> <td>B</td><td></td><td></td></tr> <tr> <td>C</td><td></td><td></td></tr> <tr> <td>D*</td><td>60</td><td></td></tr> </tbody> </table>	Item	State	Local	A			B			C			D*	60		<p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts</p> <p><input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>
Item	State	Local															
A																	
B																	
C																	
D*	60																

3.4(E) represent multiplication facts by using a variety of approaches such as repeated addition, equal-sized groups, arrays, area models, equal jumps on a number line, and skip counting		Analysis of Assessed Standards	
!	2024 – Q9	Cluster	Multiplication and Division of Whole Numbers
	A student solved a problem by skip counting. The student's work is shown with the answer circled.	Subcluster	Multiplication of Whole Numbers
	4, 8, 12, 16, 20, 24, 28, 32, 36, <b>40</b> , 44	Content	Supporting
		Process	
		Item Type	Multiple Choice (1 pt)
		Stimulus	
Data Analysis			
Item	State	Local	
A*	59		
B			
C			
D			
Error Analysis			
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
Learning from Mistakes Instructional Implications			

\*Correct Answer (A)

**3.4(E)** represent multiplication facts by using a variety of approaches such as repeated addition, equal-sized groups, arrays, area models, equal jumps on a number line, and skip counting

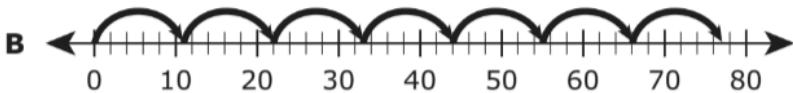
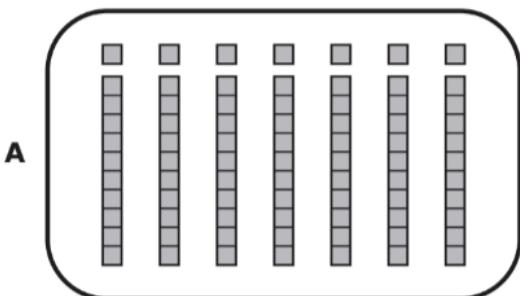
**Analysis of Assessed Standards**

2022 – Q7

- 7 Gia lists some different methods she thinks she can use to solve the multiplication problem shown.

$$7 \times 11 = ?$$

Which answer choice is **NOT** a correct method for Gia to use?



C 11, 22, 33, 44, 55, 66, (77)

D 7, 18, 29, 40, 51, 62, (73)

<b>Cluster</b>	Multiplication and Division of Whole Numbers
<b>Subcluster</b>	Multiplication of Whole Numbers
<b>Content</b>	Supporting
<b>Process</b>	
<b>Stimulus</b>	

**Data Analysis**

Item	State	Local
A	11	
B	13	
C	11	
D*	65	

**Error Analysis**

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

**Learning from Mistakes**  
**Instructional Implications**

\*Correct Answer (D)

<p><b>3.4(G)</b> use strategies and algorithms, including the standard algorithm, to multiply a two-digit number by a one-digit number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties</p>	<b>Analysis of Assessed Standards</b>	
2024 – Q28	<b>Cluster</b>	Multiplication and Division of Whole Numbers
A teacher bought 8 boxes of pencils. Each box contained 48 pencils. How many pencils did the teacher buy?	<b>Subcluster</b>	Multiplication of Whole Numbers
	<b>Content</b>	Supporting
	<b>Process</b>	
	<b>Item Type</b>	Multiple Choice (1 pt)
	<b>Stimulus</b>	
	<b>Data Analysis</b>	
	<b>Item</b>	<b>State</b>
	A	
	B*	61
	C	
	D	
<b>*Correct Answer (B)</b>	<b>Error Analysis</b> <input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early	
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>	

<p><b>3.5(C)</b> describe a multiplication expression as a comparison such as <math>3 \times 24</math> represents 3 times as much as 24</p> <p>! 2025 – Q23</p> <p>A restaurant sells 38 pizzas on Wednesday. The expression <math>38 \times 2</math> can be used to find the number of pizzas the restaurant sells on Saturday.</p> <p>Which statement is true?</p> <p>(A) There are 38 times as many pizzas sold on Wednesday as on Saturday.  (B) There are 2 times as many pizzas sold on Wednesday as on Saturday.  (C) There are 2 times as many pizzas sold on Saturday as on Wednesday.  (D) There are 38 times as many pizzas sold on Saturday as on Wednesday.</p>	<b>Analysis of Assessed Standards</b>	
<b>Cluster</b>	Multiplication and Division of Whole Numbers	
<b>Subcluster</b>	Multiplication of Whole Numbers	
<b>Content</b>	Supporting	
<b>Process</b>		
<b>Item Type</b>	Multiple Choice (1 pt)	
<b>Stimulus</b>		
<b>Data Analysis</b>		
<b>Item</b>	<b>State</b>	<b>Local</b>
A		
B		
C*	40	
D		
<b>Error Analysis</b>		
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early	
<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

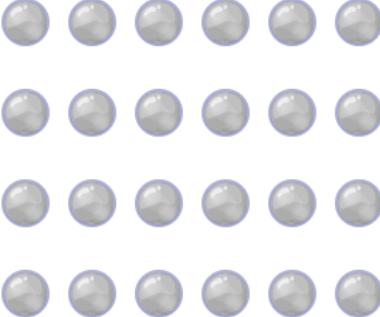
\*Correct Answer (C)

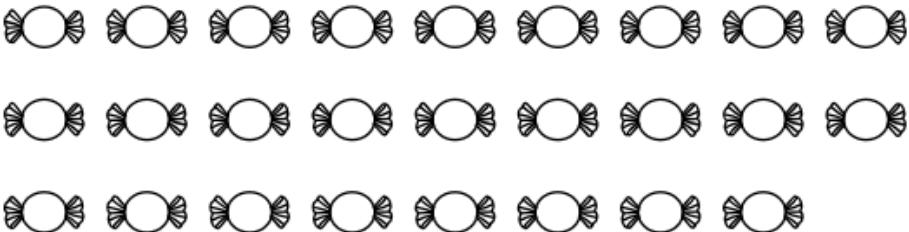
<b>3.5(C)</b> describe a multiplication expression as a comparison such as $3 \times 24$ represents 3 times as much as 24	<b>Analysis of Assessed Standards</b>	
<b>!</b> 2023 – Q26	<b>Cluster</b>	Multiplication and Division of Whole Numbers
Alex scored 8 points in a basketball game. The expression shows the number of points that Sara scored. $8 \times 3$	<b>Subcluster</b>	Multiplication of Whole Numbers
Complete the statement to compare the numbers of points scored by Alex and Sara.	<b>Content</b>	Supporting
Move the correct answer to each box. Not all answers will be used.	<b>Process</b>	
Sara    Alex    8    3    more points than    times as many points as [ ]                [ ]                [ ] [ ]                scored [ ]                [ ] [ ]                did.	<b>Item Type</b>	Drag and Drop (2 pts)
	<b>Stimulus</b>	
	<b>Data Analysis</b>	
	<b>Item</b>	<b>State</b>
	Full Credit	39
	No Credit	35
	Partial Credit	26
	<b>Error Analysis</b>	
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>	
*Correct Answer (Sara, 3, times as many points as, Alex)		

<b>3.5(C)</b> describe a multiplication expression as a comparison such as $3 \times 24$ represents 3 times as much as 24	<b>Analysis of Assessed Standards</b>	
2022 – Q2	<b>Cluster</b>	Multiplication and Division of Whole Numbers
<b>2</b> Haruko did 9 sit-ups in P.E. class. The number of sit-ups Tom did can be represented by this expression.	<b>Subcluster</b>	Multiplication of Whole Numbers
$2 \times 9$	<b>Content</b>	Supporting
Which statement is true?	<b>Process</b>	
<b>F</b> Tom did 2 times as many sit-ups as Haruko.	<b>Stimulus</b>	
<b>G</b> Haruko did 2 times as many sit-ups as Tom.	<b>Data Analysis</b>	
<b>H</b> Tom did 2 more sit-ups than Haruko.	<b>Item</b>	<b>State</b>
<b>J</b> Haruko did 2 more sit-ups than Tom.	F*	72
	G	15
	H	7
	J	6
	<b>Error Analysis</b>	
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>	
*Correct Answer (F)		



		Analysis of Assessed Standards			
2022 – Q23		Cluster	Multiplication and Division of Whole Numbers		
<b>23</b> What number goes in the $\square$ to make the equation true?		Subcluster	Multiplication of Whole Numbers		
$\square \times 7 = 98$		Content	Supporting		
		Process			
		Stimulus			
Data Analysis					
		Item	State Local		
<b>A</b> 14		A*	71		
<b>B</b> 91		B	8		
<b>C</b> 105		C	4		
<b>D</b> 13		D	18		
Error Analysis					
<input type="checkbox"/> Guessing		<input type="checkbox"/> Mixed Up Concepts			
<input type="checkbox"/> Careless Error		<input type="checkbox"/> Stopped Too Early			
Learning from Mistakes Instructional Implications					
*Correct Answer (A)					

3.4(H) determine the number of objects in each group when a set of objects is partitioned into equal shares or a set of objects is shared equally		Analysis of Assessed Standards			
<b>!</b>	2025 – Q25	<b>Cluster</b>	Multiplication and Division of Whole Numbers		
Barry has 24 marbles. He separates them into 3 groups of equal size.		<b>Subcluster</b>	Division of Whole Numbers		
Select the number of marbles that are in one group.		<b>Content</b>	Supporting		
		<b>Process</b>			
		<b>Item Type</b>	Hot Spot (1 pt)		
		<b>Stimulus</b>			
Data Analysis					
Item	State	Local			
Full Credit	48				
No Credit	52				
Error Analysis					
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts				
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early				
Learning from Mistakes Instructional Implications					
*Correct Answer (Any 8 marbles)					

<b>3.4(H)</b> determine the number of objects in each group when a set of objects is partitioned into equal shares or a set of objects is shared equally	<b>Analysis of Assessed Standards</b>	
2023 – Q2	<b>Cluster</b>	Multiplication and Division of Whole Numbers
Lupita has 26 pieces of candy as shown.	<b>Subcluster</b>	Division of Whole Numbers
	<b>Content</b>	Supporting
	<b>Process</b>	
	<b>Item Type</b>	Multiple Choice (1 pt)
	<b>Stimulus</b>	
	<b>Data Analysis</b>	
	<b>Item</b>	<b>State</b>
(A) 2	8	
(B) 24	11	
(C) 3	5	
(D) 13	76	
<b>*Correct Answer (D)</b>	<b>Error Analysis</b> <input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early	
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>	

<p><b>3.4(H)</b> determine the number of objects in each group when a set of objects is partitioned into equal shares or a set of objects is shared equally</p>	<p><b>Analysis of Assessed Standards</b></p>															
<p>! 2022 – Q25</p>	<p><b>Cluster</b> Multiplication and Division of Whole Numbers</p>															
	<p><b>Subcluster</b> Division of Whole Numbers</p>															
	<p><b>Content</b> Supporting</p>															
	<p><b>Process</b></p>															
	<p><b>Stimulus</b></p>															
	<p><b>Data Analysis</b></p>															
	<table border="1"> <thead> <tr> <th data-bbox="1106 242 1204 242">Item</th> <th data-bbox="1204 242 1318 242">State</th> <th data-bbox="1318 242 1512 242">Local</th> </tr> </thead> <tbody> <tr> <td data-bbox="1106 242 1204 242">A</td> <td data-bbox="1204 242 1318 242">21</td> <td data-bbox="1318 242 1512 242"></td> </tr> <tr> <td data-bbox="1106 242 1204 242">B</td> <td data-bbox="1204 242 1318 242">11</td> <td data-bbox="1318 242 1512 242"></td> </tr> <tr> <td data-bbox="1106 242 1204 242">C</td> <td data-bbox="1204 242 1318 242">5</td> <td data-bbox="1318 242 1512 242"></td> </tr> <tr> <td data-bbox="1106 242 1204 242">D*</td> <td data-bbox="1204 242 1318 242">64</td> <td data-bbox="1318 242 1512 242"></td> </tr> </tbody> </table>	Item	State	Local	A	21		B	11		C	5		D*	64	
Item	State	Local														
A	21															
B	11															
C	5															
D*	64															
	<p><b>Error Analysis</b></p>															
	<p><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts</p>															
	<p><input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p>															
	<p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>															

Poster 1



Poster 2



How many stars did Greg put on each poster?

- A 28
- B 16
- C 12
- D 7

\*Correct Answer (D)

3.4(I) determine if a number is even or odd using divisibility rules		Analysis of Assessed Standards	
 2023 – Q10	Which statement about the number 510 is true?	<b>Cluster</b>	Multiplication and Division of Whole Numbers
	<p>(A) It is odd, because it can be divided by 3 evenly.</p>	<b>Subcluster</b>	Division of Whole Numbers
	<p>(B) It is odd, because the digit in the hundreds place is odd.</p>	<b>Content</b>	Supporting
	<p>(C) It is even, because it can be divided by 2 evenly.</p>	<b>Process</b>	
	<p>(D) It is even, because the digit in the tens place is even.</p>	<b>Item Type</b>	Multiple Choice (1 pt)
		<b>Stimulus</b>	
Data Analysis			
Item	State	Local	
A	10		
B	25		
C*	50		
D	15		
Error Analysis			
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
Learning from Mistakes Instructional Implications			
*Correct Answer (C)			

3.4(I) determine if a number is even or odd using divisibility rules	Analysis of Assessed Standards		
2022 – Q28	Cluster	Multiplication and Division of Whole Numbers	
28 Which statement about the number 27 is true?	Subcluster	Division of Whole Numbers	
F It is even because the digit in the tens place is even.	Content	Supporting	
G It is odd because the digit in the ones place is odd.	Process		
H It is even because it can be divided by 9 evenly.	Stimulus		
J It is odd because it can be divided by 2 evenly.			
		Data Analysis	
	Item	State	Local
F	F	12	
G*	G*	71	
H	H	9	
J	J	8	
		Error Analysis	
		<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts
		<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
		Learning from Mistakes Instructional Implications	
*Correct Answer (G)			

3.4(J) determine a quotient using the relationship between multiplication and division		Analysis of Assessed Standards	
2025 – Q2	A store has 45 toy cars in 5 different colors. There are the same number of cars in each color. Which equation could be used to find the number of cars in each of the 5 colors?	Cluster	Multiplication and Division of Whole Numbers
		Subcluster	Division of Whole Numbers
		Content	Supporting
		Process	
		Item Type	Multiple Choice (1 pt)
		Stimulus	
Data Analysis			
Item	State	Local	
A*	68		
B			
C			
D			
Error Analysis			
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
Learning from Mistakes Instructional Implications			

\*Correct Answer (A)

3.4(J) determine a quotient using the relationship between multiplication and division		Analysis of Assessed Standards	
2023 – Q27		Cluster	Multiplication and Division of Whole Numbers
Ms. Morales made 28 fluid ounces of sugar water to fill the hummingbird feeders in her backyard.		Subcluster	Division of Whole Numbers
<ul style="list-style-type: none"> <li>She put 7 fluid ounces of sugar water into each feeder.</li> <li>She put all the sugar water she made into the feeders.</li> </ul>		Content	Supporting
Which equation can be used to find the total number of feeders Ms. Morales filled with sugar water?		Process	
<input type="radio"/> A $28 - 7 = 21$ <input type="radio"/> B $7 \times 4 = 28$ <input type="radio"/> C $28 + 4 = 32$ <input type="radio"/> D $7 \times 28 = 196$		Item Type	Multiple Choice (1 pt)
		Stimulus	
<b>Data Analysis</b>			
Item	State	Local	
A	25		
B*	49		
C	11		
D	14		
<b>Error Analysis</b>			
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
<b>Learning from Mistakes</b> <b>Instructional Implications</b>			

\*Correct Answer (B)

3.4(J) determine a quotient using the relationship between multiplication and division		Analysis of Assessed Standards	
!	2022 – Q11	Cluster	Multiplication and Division of Whole Numbers
11	Which number sentence can be used to find the number that goes in the box?	Subcluster	Division of Whole Numbers
	$12 \div 2 = \square$	Content	Supporting
		Process	
		Stimulus	
<b>Data Analysis</b>			
Item	State	Local	
A	4		
B*	71		
C	21		
D	3		
<b>Error Analysis</b>			
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
<b>Learning from Mistakes</b> <b>Instructional Implications</b>			

\*Correct Answer (B)



3.5(E) represent real-world relationships using number pairs in a table and verbal descriptions		Analysis of Assessed Standards									
2025 – Q4	Lilah reads 5 books every month. The table shows the total number of books Lilah reads over time.	Cluster	Multiplication and Division of Whole Numbers								
	<b>Lilah's Reading</b>	Subcluster	Numerical Patterns								
	<table border="1"> <thead> <tr> <th>Number of Months</th><th>Books Read</th></tr> </thead> <tbody> <tr> <td>2</td><td>10</td></tr> <tr> <td>4</td><td>20</td></tr> <tr> <td>6</td><td>30</td></tr> </tbody> </table>	Number of Months	Books Read	2	10	4	20	6	30	Content	Readiness
Number of Months	Books Read										
2	10										
4	20										
6	30										
		Process									
		Item Type	Inline Choice (2 pts)								
		Stimulus									
		Data Analysis									
		Item	State								
		Full Credit	51								
		No Credit	24								
		Partial Credit	26								
		Error Analysis									
		<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts								
		<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early								
		Learning from Mistakes Instructional Implications									
<b>*Correct Answer (times; 5)</b>											

**3.5(E)** represent real-world relationships using number pairs in a table and verbal descriptions

! 2025 – Q17

The number of classes Ms. Elisha teaches is equal to the number of days she teaches times 6.

Which table shows this relationship?

(A) **Ms. Elisha's Classes**

Number of Days	Number of Classes
6	1
18	3
30	5

(C) **Ms. Elisha's Classes**

Number of Days	Number of Classes
1	6
3	18
5	30

(B) **Ms. Elisha's Classes**

Number of Days	Number of Classes
1	7
2	8
3	9

(D) **Ms. Elisha's Classes**

Number of Days	Number of Classes
6	0
18	12
30	24

\*Correct Answer (C)

**Analysis of Assessed Standards**

<b>Cluster</b>	Multiplication and Division of Whole Numbers
<b>Subcluster</b>	Numerical Patterns
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Multiple Choice (1 pt)
<b>Stimulus</b>	

**Data Analysis**

Item	State	Local
A		
B		
C*	51	
D		

**Error Analysis**

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

**Learning from Mistakes**  
**Instructional Implications**

**3.5(E)** represent real-world relationships using number pairs in a table and verbal descriptions

! 2024 – Q13

The chef at a restaurant makes 6 burritos with every 1 pound of meat.

Which table shows the relationship between burritos and pounds of meat?

(A) **Burritos Made**

Number of Burritos	Pounds of Meat
7	1
8	2
16	10
20	14

(C) **Burritos Made**

Number of Burritos	Pounds of Meat
1	6
2	12
10	60
14	84

(B) **Burritos Made**

Number of Burritos	Pounds of Meat
6	1
12	2
60	10
84	14

(D) **Burritos Made**

Number of Burritos	Pounds of Meat
6	1
12	7
18	13
24	19

#### Analysis of Assessed Standards

Cluster	Multiplication and Division of Whole Numbers
Subcluster	Numerical Patterns
Content	Readiness
Process	
Item Type	Multiple Choice (1 pt)

Stimulus

#### Data Analysis

Item	State	Local
A		
B*	48	
C		
D		

#### Error Analysis

- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

\*Correct Answer (B)

**3.5(E) represent real-world relationships using number pairs in a table and verbal descriptions****!** 2023 – Q19

A pet store has several aquariums. The table shows the relationship between the number of aquariums and the total number of fish at the pet store.

Pet Store Fish				
Number of Aquariums	3	5	9	12
Number of Fish	18	30	54	72

Complete the sentence to describe the relationship in the table.

Select the correct answer for each blank from the drop-down menus.

To find the number of fish,  the number of aquariums by

**Analysis of Assessed Standards**

<b>Cluster</b>	Multiplication and Division of Whole Numbers
<b>Subcluster</b>	Numerical Patterns
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Inline Choice (2 pts)
<b>Stimulus</b>	

**Data Analysis**

Item	State	Local
Full Credit	49	
No Credit	30	
Partial Credit	21	

**Error Analysis**

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

**Learning from Mistakes**  
**Instructional Implications****\*Correct Answer (multiply, 6)**

3.5(E) represent real-world relationships using number pairs in a table and verbal descriptions		Analysis of Assessed Standards	
!	2022 – Q27	Cluster	Multiplication and Division of Whole Numbers
<b>27</b>	Shelly needs tickets for rides at an amusement park. The table shows the numbers of tickets needed to ride different numbers of rides.	Subcluster	Numerical Patterns
		Content	Readiness
		Process	
		Stimulus	
<b>Data Analysis</b>			
	Item	State	Local
	A	21	
	B	23	
	C*	37	
	D	18	
<b>Error Analysis</b>			
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early	
<b>Learning from Mistakes</b> <b>Instructional Implications</b>			
*Correct Answer (C)			

<p><b>3.4(K)</b> solve one-step and two-step problems involving multiplication and division within 100 using strategies based on objects; pictorial models, including arrays, area models, and equal groups; properties of operations; or recall of facts</p>	<b>Analysis of Assessed Standards</b>	
<p>! 2025 – Q10</p> <p>Amy, Carl, and Liz equally share 60 building blocks. Amy divides her share of building blocks into 4 equal piles. How many building blocks are in each of Amy's piles?</p> <p>(A) 15 (B) 16 (C) 5 (D) 4</p>	<b>Cluster</b> Multiplication and Division of Whole Numbers	
	<b>Subcluster</b> Multiplication and Division of Whole Numbers	
	<b>Content</b> Readiness	
	<b>Process</b>	
	<b>Item Type</b> Multiple Choice (1 pt)	
	<b>Stimulus</b>	
	<b>Data Analysis</b>	
	<b>Item</b>	<b>State</b>
	A	
	B	
	C*	21
	D	
	<b>Error Analysis</b>	
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>	
*Correct Answer (C)		

**3.4(K)** solve one-step and two-step problems involving multiplication and division within 100 using strategies based on objects; pictorial models, including arrays, area models, and equal groups; properties of operations; or recall of facts

**Analysis of Assessed Standards**

2025 – Q21

Frank puts 90 pictures in a book. He puts 6 pictures on each page.

How many pages does Frank put pictures on?

Enter your answer in the space provided.

The form contains a large input field at the top, followed by a numeric keypad with four rows of buttons. The first row has buttons for 1, 2, and 3. The second row has buttons for 4, 5, and 6. The third row has buttons for 7, 8, and 9. The fourth row has a button for 0 and a fraction bar button ( $\frac{\Box}{\Box}$ ). Above the numeric keypad are five small circular buttons with arrows and a clear button (X).

\*Correct Answer (15)

<b>Cluster</b>	Multiplication and Division of Whole Numbers
<b>Subcluster</b>	Multiplication and Division of Whole Numbers
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Equation Editor (1 pt)
<b>Stimulus</b>	

**Data Analysis**

Item	State	Local
Full Credit	35	
No Credit	65	

**Error Analysis**

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

**Learning from Mistakes**  
**Instructional Implications**

**3.4(K)** solve one-step and two-step problems involving multiplication and division within 100 using strategies based on objects; pictorial models, including arrays, area models, and equal groups; properties of operations; or recall of facts

**Analysis of Assessed Standards**

2024 – Q20

Steve puts 75 shirts on shelves at a store. He puts 15 shirts on each shelf.

How many shelves does Steve put shirts on?

(A) 90

(B) 60

(C) 5

(D) 6

<b>Cluster</b>	Multiplication and Division of Whole Numbers
<b>Subcluster</b>	Multiplication and Division of Whole Numbers
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Multiple Choice (1 pt)
<b>Stimulus</b>	

**Data Analysis**

Item	State	Local
A		
B		
C*	46	
D		

**Error Analysis**

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

**Learning from Mistakes**  
**Instructional Implications**

\*Correct Answer (C)

**3.4(K)** solve one-step and two-step problems involving multiplication and division within 100 using strategies based on objects; pictorial models, including arrays, area models, and equal groups; properties of operations; or recall of facts

**Analysis of Assessed Standards**

! 2023 – Q15

Martin has 11 cages in his bird store. Each cage can hold 7 birds. The store has 21 birds in its cages.

What is the greatest number of birds Martin can add to his cages?

(A) 98

(B) 56

(C) 17

(D) 39

<b>Cluster</b>	Multiplication and Division of Whole Numbers
<b>Subcluster</b>	Multiplication and Division of Whole Numbers
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Multiple Choice (1 pt)
<b>Stimulus</b>	

**Data Analysis**

Item	State	Local
A	21	
B*	28	
C	24	
D	26	

**Error Analysis**

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

**Learning from Mistakes**  
**Instructional Implications**

\*Correct Answer (B)

<p><b>3.4(K)</b> solve one-step and two-step problems involving multiplication and division within 100 using strategies based on objects; pictorial models, including arrays, area models, and equal groups; properties of operations; or recall of facts</p> <p>2022 – Q14</p> <p><b>14</b> A group of people bought tickets for a roller-coaster ride.</p> <ul style="list-style-type: none"> <li>• The group spent \$4 for each ticket.</li> <li>• Altogether the group spent \$48 on tickets.</li> <li>• Each person in the group got 2 tickets.</li> </ul> <p>How many people were in the group?</p> <p>Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.</p>	<b>Analysis of Assessed Standards</b>	
<b>Cluster</b>	Multiplication and Division of Whole Numbers	
<b>Subcluster</b>	Multiplication and Division of Whole Numbers	
<b>Content</b>	Readiness	
<b>Process</b>		
<b>Stimulus</b>		
<b>Data Analysis</b>		
<b>Item</b>	<b>State</b>	<b>Local</b>
6	18*	
	82	
<b>Error Analysis</b>		
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early	
<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

\*Correct Answer (6)

<p><b>3.4(K)</b> solve one-step and two-step problems involving multiplication and division within 100 using strategies based on objects; pictorial models, including arrays, area models, and equal groups; properties of operations; or recall of facts</p> <p>2022 – Q30</p> <p><b>30</b> Alex bought 4 packages of pink golf balls and 2 packages of orange golf balls. There were 12 golf balls in each package.</p> <p>How many golf balls did Alex buy?</p> <p><b>F</b> 72</p> <p><b>G</b> 50</p> <p><b>H</b> 96</p> <p><b>J</b> 18</p>	<b>Analysis of Assessed Standards</b>	
<b>Cluster</b>	Multiplication and Division of Whole Numbers	
<b>Subcluster</b>	Multiplication and Division of Whole Numbers	
<b>Content</b>	Readiness	
<b>Process</b>		
<b>Stimulus</b>		
<b>Data Analysis</b>		
<b>Item</b>	<b>State</b>	<b>Local</b>
F*	58	
G	11	
H	12	
J	19	
<b>Error Analysis</b>		
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early	
<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

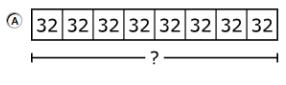
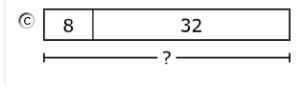
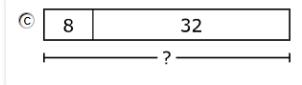
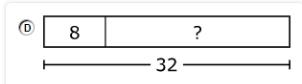
\*Correct Answer (F)



<b>3.5(B)</b> represent and solve one- and two-step multiplication and division problems within 100 using arrays, strip diagrams, and equations		<b>Analysis of Assessed Standards</b>			
		<b>Cluster</b>	Multiplication and Division of Whole Numbers		
		<b>Subcluster</b>	Multiplication and Division of Whole Numbers		
		<b>Content</b>	Readiness		
		<b>Process</b>			
		<b>Item Type</b>	Multiple Choice (1 pt)		
		<b>Stimulus</b>			
<b>Data Analysis</b>					
<b>Item</b>		<b>State</b>	<b>Local</b>		
A					
B					
C					
D*		38			
<b>Error Analysis</b>					
<input type="checkbox"/> Guessing		<input type="checkbox"/> Mixed Up Concepts			
<input type="checkbox"/> Careless Error		<input type="checkbox"/> Stopped Too Early			
<b>Learning from Mistakes</b> <b>Instructional Implications</b>					
*Correct Answer (D)					

<b>3.5(B)</b> represent and solve one- and two-step multiplication and division problems within 100 using arrays, strip diagrams, and equations	<b>Analysis of Assessed Standards</b>	
2024 – Q15	<b>Cluster</b>	Multiplication and Division of Whole Numbers
A sports complex has 4 basketball courts. There are 2 bags of basketballs for each court. Each bag contains 7 basketballs.	<b>Subcluster</b>	Multiplication and Division of Whole Numbers
Complete the equation to represent the total number of basketballs at the sports complex.	<b>Content</b>	Readiness
Move the correct answer to each box. Each answer may be used more than once. Not all answers will be used.	<b>Process</b>	
	<b>Item Type</b>	Drag and Drop (2 pts)
	<b>Stimulus</b>	
	<b>Data Analysis</b>	
	<b>Item</b>	<b>State</b>
	Full Credit	29
	No Credit	22
4 <input type="text"/> 2 <input type="text"/> 7 = <input type="text"/>	Partial Credit	49
	<b>Error Analysis</b>	
*Correct Answer (x; x)	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>	

<b>3.5(B)</b> represent and solve one- and two-step multiplication and division problems within 100 using arrays, strip diagrams, and equations	<b>Analysis of Assessed Standards</b>	
!	2024 – Q26	<b>Cluster</b> Multiplication and Division of Whole Numbers
		<b>Subcluster</b> Multiplication and Division of Whole Numbers
		<b>Content</b> Readiness
		<b>Process</b>
		<b>Item Type</b> Multiple Choice (1 pt)
		<b>Stimulus</b>
<b>Data Analysis</b>		
	<b>Item</b>	<b>State</b>
	A	
	B	
	C*	37
	D	
<b>Error Analysis</b>		
<input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early		
<b>Learning from Mistakes</b> <b>Instructional Implications</b>		
*Correct Answer (C)		

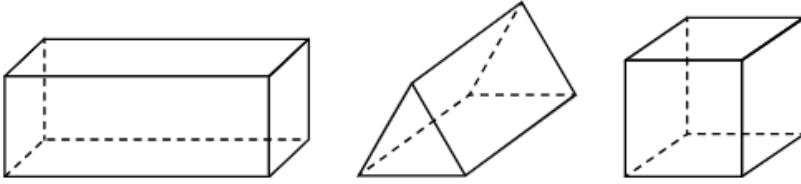
<b>3.5(B)</b> represent and solve one- and two-step multiplication and division problems within 100 using arrays, strip diagrams, and equations	<b>Analysis of Assessed Standards</b>		
<b>!</b> 2023 – Q4	<b>Cluster</b>	Multiplication and Division of Whole Numbers	
A total of 32 magnets were attached to 8 metal cabinets, and an equal number of the magnets were attached to each cabinet.	<b>Subcluster</b>	Multiplication and Division of Whole Numbers	
Which model can be used to find the number of magnets attached to each cabinet?	<b>Content</b>	Readiness	
<p>(A) </p> <p>(B) </p> <p>(C) </p> <p>(D) </p>	<b>Process</b>		
	<b>Item Type</b>	Multiple Choice (1 pt)	
	<b>Stimulus</b>		
	<b>Data Analysis</b>		
	<b>Item</b>	<b>State</b>	<b>Local</b>
	A	24	
	B*	40	
	C	19	
	D	17	
<b>*Correct Answer (B)</b>	<b>Error Analysis</b>		
	<input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early		
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

<b>3.5(B)</b> represent and solve one- and two-step multiplication and division problems within 100 using arrays, strip diagrams, and equations	<b>Analysis of Assessed Standards</b>		
2023 – Q29	<b>Cluster</b>	Multiplication and Division of Whole Numbers	
An artist painted 20 skateboards on Saturday. She painted 4 flowers on each skateboard. Which equation can be used to find the total number of flowers the artist painted on these skateboards?	<b>Subcluster</b>	Multiplication and Division of Whole Numbers	
<p>(A) <math>20 \times 4 = 80</math></p> <p>(B) <math>20 \div 4 = 5</math></p> <p>(C) <math>20 + 4 = 24</math></p> <p>(D) <math>20 - 4 = 16</math></p>	<b>Content</b>	Readiness	
	<b>Process</b>		
	<b>Item Type</b>	Multiple Choice (1 pt)	
	<b>Stimulus</b>		
	<b>Data Analysis</b>		
	<b>Item</b>	<b>State</b>	<b>Local</b>
	A*	54	
	B	28	
	C	14	
	D	4	
<b>*Correct Answer (A)</b>	<b>Error Analysis</b>		
	<input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early		
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

<b>3.5(B)</b> represent and solve one- and two-step multiplication and division problems within 100 using arrays, strip diagrams, and equations	<b>Analysis of Assessed Standards</b>	
2022 – Q12	<b>Cluster</b>	Multiplication and Division of Whole Numbers
12 Janet has 2 new games.	<b>Subcluster</b>	Multiplication and Division of Whole Numbers
<ul style="list-style-type: none"> <li>Each game has 3 packs of cards.</li> <li>Each pack has 10 cards.</li> </ul> <p>Which model can be used to find the total number of cards Janet has for these 2 games?</p>	<b>Content</b>	Readiness
	<b>Process</b>	
	<b>Stimulus</b>	
<b>Data Analysis</b>		
	<b>Item</b>	<b>State</b>
F	71	
G	6	
H	18	
J	5	
<b>Error Analysis</b>		
<input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early		
<b>Learning from Mistakes</b> <b>Instructional Implications</b>		
<b>*Correct Answer (F)</b>		

# Geometry

**3.6 Geometry and measurement.** The student applies mathematical process standards to analyze attributes of two-dimensional geometric figures to develop generalizations about their properties.

3.6(A) classify and sort two- and three-dimensional figures, including cones, cylinders, spheres, triangular and rectangular prisms, and cubes, based on attributes using formal geometric language		Analysis of Assessed Standards		
2025 – Q13		Cluster	Geometry	
A group of figures is shown.		Subcluster	Two-Dimensional/Three-Dimensional	
		Content	Readiness	
		Process		
		Item Type	Multiselect (2 pts)	
		Stimulus		
Data Analysis				
	Item	State	Local	
<input type="checkbox"/> All the figures are prisms.	Full Credit	36		
<input type="checkbox"/> All the figures are polygons.	No Credit	7		
<input type="checkbox"/> All the figures have at least one triangular face.	Partial Credit	57		
<input type="checkbox"/> All the figures have zero vertices.				
<input type="checkbox"/> All the figures have at least one rectangular face.				
Error Analysis				
<input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts				
<input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early				
Learning from Mistakes Instructional Implications				
*Correct Answer (1st option; 5th option)				

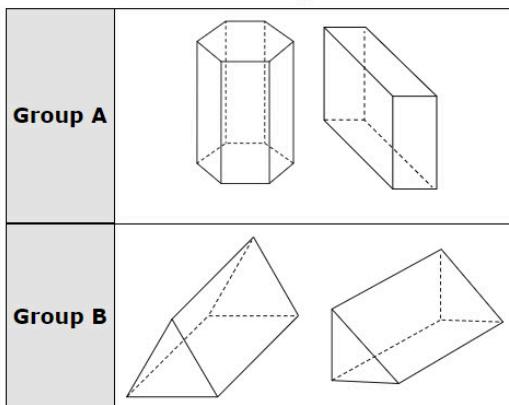
**3.6(A)** classify and sort two- and three-dimensional figures, including cones, cylinders, spheres, triangular and rectangular prisms, and cubes, based on attributes using formal geometric language

**Analysis of Assessed Standards**

2024 – Q27

Rashida groups four figures into two groups.

**Rashida's Figures**



How did Rashida group the figures?

Choose the correct answer from each drop-down menu to complete the sentences.

The figures in Group A have  but the figures in Group B do not.

The figures in Group B have  but the figures in Group A do not.

<b>Cluster</b>	Geometry
<b>Subcluster</b>	Two-Dimensional/Three-Dimensional
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Inline Choice (1 pt)
<b>Stimulus</b>	

Data Analysis		
Item	State	Local
Full Credit	39	
No Credit	14	
Partial Credit	47	

Error Analysis	
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early

**Learning from Mistakes  
Instructional Implications**

\*Correct Answer (more than 5 faces; triangular bases)

**3.6(A)** classify and sort two- and three-dimensional figures, including cones, cylinders, spheres, triangular and rectangular prisms, and cubes, based on attributes using formal geometric language

**Analysis of Assessed Standards**

! 2023 – Q8

A group of figures is shown.



Which statement appears to be true about all the figures in the group?

- (A) All the figures are parallelograms.
- (B) All the figures are polygons.
- (C) All the figures have equal side lengths.
- (D) All the figures are prisms.

<b>Cluster</b>	Geometry
<b>Subcluster</b>	Two-Dimensional/Three-Dimensional
<b>Content</b>	Readiness
<b>Process</b>	
<b>Item Type</b>	Multiple Choice (1 pt)
<b>Stimulus</b>	

**Data Analysis**

Item	State	Local
A	23	
B*	52	
C	12	
D	12	

**Error Analysis**

- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

**Learning from Mistakes  
Instructional Implications**

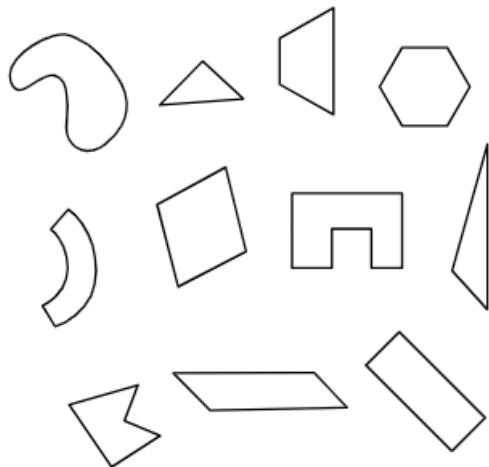
\*Correct Answer (B)

**3.6(A)** classify and sort two- and three-dimensional figures, including cones, cylinders, spheres, triangular and rectangular prisms, and cubes, based on attributes using formal geometric language

**Analysis of Assessed Standards**

! 2023 – Q16

Jesse draws 11 shapes, as shown.



How many of the shapes are polygons with more than three sides?

Enter your answer in the space provided.

( ) ( ) ( ) ( ) ( )

1	2	3
4	5	6
7	8	9
0	□	□

\*Correct Answer (7 and any equivalent values are correct)

Cluster	Geometry
Subcluster	Two-Dimensional/Three-Dimensional
Content	Readiness
Process	
Item Type	Equation Editor (1 pt)
Stimulus	

Data Analysis		
Item	State	Local
Full Credit	25	
No Credit	75	

Error Analysis	
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early

Learning from Mistakes Instructional Implications	

**3.6(A)** classify and sort two- and three-dimensional figures, including cones, cylinders, spheres, triangular and rectangular prisms, and cubes, based on attributes using formal geometric language

#### Analysis of Assessed Standards

2022 – Q13

- 13** Leighton made a table that correctly shows the attributes of shapes. She used a check mark to identify the attributes of each shape.

Which table could be the one Leighton made?

Has Vertices	✓	✓	
Quadrilateral	✓	✓	

Has Vertices	✓	✓	
Quadrilateral	✓		

Has Vertices			✓
Quadrilateral	✓		

Has Vertices	✓	✓	
Quadrilateral			

\*Correct Answer (C)

Cluster	Geometry
Subcluster	Two-Dimensional/Three-Dimensional
Content	Readiness
Process	
Stimulus	

#### Data Analysis

Item	State	Local
A	19	
B	4	
C*	69	
D	8	

#### Error Analysis

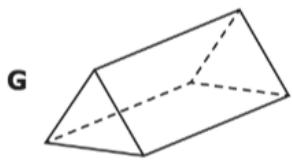
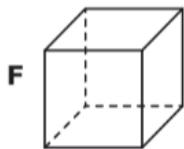
- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

**3.6(A)** classify and sort two- and three-dimensional figures, including cones, cylinders, spheres, triangular and rectangular prisms, and cubes, based on attributes using formal geometric language

! 2022 – Q22

**22** Chris built a fort using prisms. Which figure is **NOT** one Chris could have used to build his fort?



\*Correct Answer (J)

#### Analysis of Assessed Standards

Cluster	Geometry
Subcluster	Two-Dimensional/Three-Dimensional
Content	Readiness
Process	
Stimulus	

#### Data Analysis

Item	State	Local
F	25	
G	13	
H	8	
J*	54	

#### Error Analysis

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

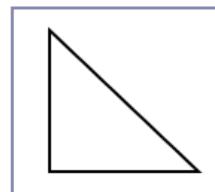
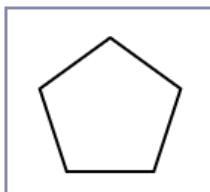
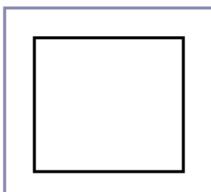
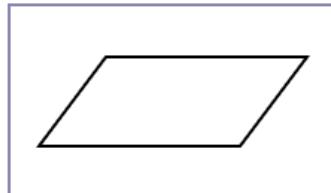
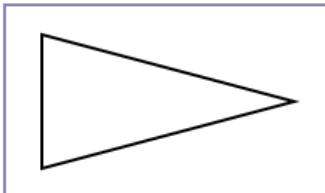
#### Learning from Mistakes Instructional Implications

**3.6(B)** use attributes to recognize rhombuses, parallelograms, trapezoids, rectangles, and squares as examples of quadrilaterals and draw examples of quadrilaterals that do not belong to any of these subcategories

2025 – Q7

Which figures are quadrilaterals?

Select **TWO** correct answers.



\*Correct Answer (square (bottom left); parallelogram (top right))

#### Analysis of Assessed Standards

Cluster	Geometry
Subcluster	Two-Dimensional/Three-Dimensional
Content	Supporting
Process	
Item Type	Hot Spot (2 pts)
Stimulus	

#### Data Analysis

Item	State	Local
Full Credit	79	
No Credit	8	
Partial Credit	13	

#### Error Analysis

- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

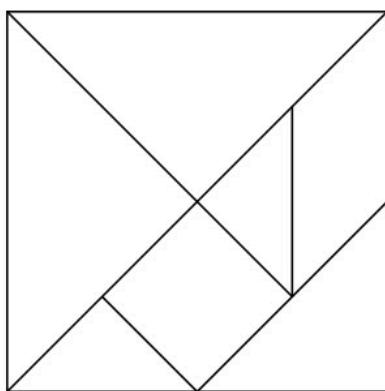
**3.6(B)** use attributes to recognize rhombuses, parallelograms, trapezoids, rectangles, and squares as examples of quadrilaterals and draw examples of quadrilaterals that do not belong to any of these subcategories

#### Analysis of Assessed Standards

<b>Cluster</b>	Geometry
<b>Subcluster</b>	Two-Dimensional/Three-Dimensional
<b>Content</b>	Supporting
<b>Process</b>	
<b>Item Type</b>	Multiple Choice (1 pt)
<b>Stimulus</b>	

! 2024 – Q12

Seven pieces of a puzzle are shown.



Which answer choice best describes the two quadrilaterals that are pieces of the puzzle?

- (A) Square and parallelogram
- (B) Parallelogram and triangle
- (C) Square and trapezoid
- (D) Triangle and rhombus

\*Correct Answer (A)

#### Data Analysis

Item	State	Local
A*	48	
B		
C		
D		

#### Error Analysis

- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

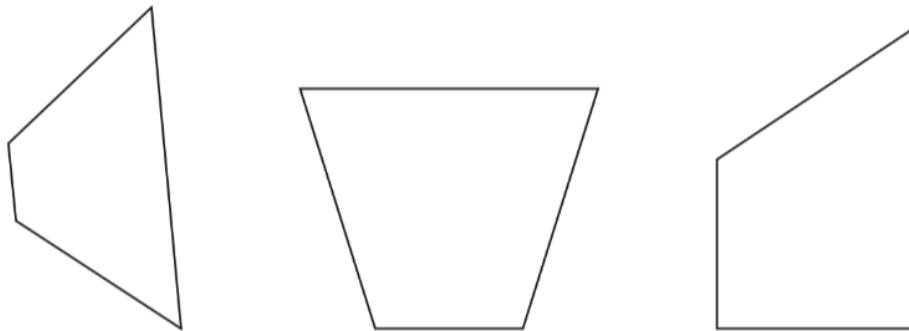
#### Learning from Mistakes Instructional Implications

**3.6(B)** use attributes to recognize rhombuses, parallelograms, trapezoids, rectangles, and squares as examples of quadrilaterals and draw examples of quadrilaterals that do not belong to any of these subcategories

**Analysis of Assessed Standards**

! 2022 – Q8

**8** A group of figures is shown.



Which word best describes all the figures in the group?

- F** Rectangle
- G** Rhombus
- H** Trapezoid
- J** Parallelogram

\*Correct Answer (H)

<b>Cluster</b>	Geometry
<b>Subcluster</b>	Two-Dimensional/Three-Dimensional
<b>Content</b>	Supporting
<b>Process</b>	
<b>Stimulus</b>	

**Data Analysis**

Item	State	Local
F	8	
G	12	
H*	50	
J	30	

**Error Analysis**

- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

**Learning from Mistakes  
Instructional Implications**

# Measurement

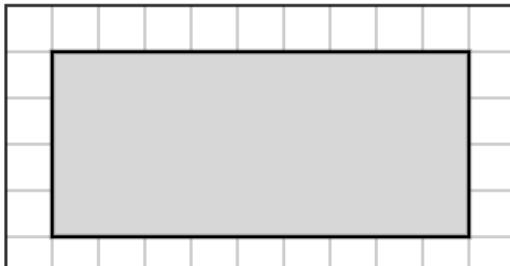
**3.7 Geometry and measurement.** The student applies mathematical process standards to select appropriate units, strategies, and tools to solve problems involving customary and metric measurement.

## Connected Knowledge and Skills 3.6

**3.6(C)** determine the area of rectangles with whole number side lengths in problems using multiplication related to the number of rows times the number of unit squares in each row

! 2025 – Q20

Avalon draws a shaded rectangle on a grid, as shown.



= 1 square centimeter

What is the area of Avalon's shaded rectangle in square centimeters?

(A) 50 square centimeters

(B) 26 square centimeters

(C) 36 square centimeters

(D) 30 square centimeters

\*Correct Answer (C)

#### Analysis of Assessed Standards

Cluster	Measurement
Subcluster	Area
Content	Readiness
Process	
Item Type	Multiple Choice (1 pt)
Stimulus	

#### Data Analysis

Item	State	Local
A		
B		
C*	50	
D		

#### Error Analysis

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

**3.6(C)** determine the area of rectangles with whole number side lengths in problems using multiplication related to the number of rows times the number of unit squares in each row

**Analysis of Assessed Standards**

! 2024 – Q21

Lena draws a rectangle on a grid made of same-sized squares that do not overlap.

- Each square has an area of one square centimeter.
- There are 32 rows in the rectangle.
- Each row has 8 squares.

What is the area of the rectangle in square centimeters?

Enter your answer in the space provided.

← → ↕ ↖ ↘

1	2	3
4	5	6
7	8	9
0	□	□

\*Correct Answer (256)

**Cluster** Measurement

**Subcluster** Area

**Content** Readiness

**Process**

**Item Type** Equation Editor (1 pt)

**Stimulus**

**Data Analysis**

Item	State	Local
Full Credit	31	
No Credit	69	

**Error Analysis**

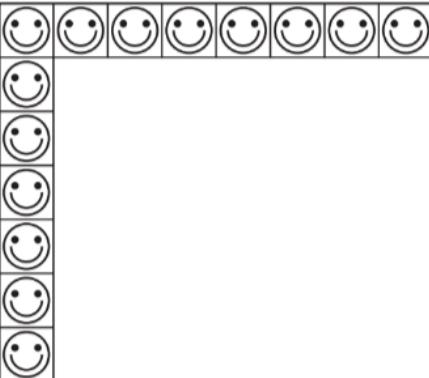
Guessing       Mixed Up Concepts

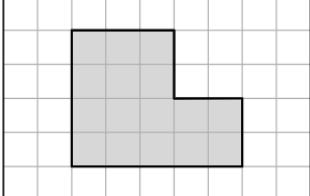
Careless Error     Stopped Too Early

**Learning from Mistakes  
Instructional Implications**

<p><b>3.6(C)</b> determine the area of rectangles with whole number side lengths in problems using multiplication related to the number of rows times the number of unit squares in each row</p>	<p><b>Analysis of Assessed Standards</b></p>	
<p>2023 – Q14</p>	<p><b>Cluster</b></p>	<p>Measurement</p>
<p>The rectangles shown will be covered with squares.</p>	<p><b>Subcluster</b></p>	<p>Area</p>
<ul style="list-style-type: none"> <li>• Each square has an area of 1 square inch.</li> <li>• Some of the squares have already been placed as shown.</li> </ul>	<p><b>Content</b></p>	<p>Readiness</p>
<p>Which rectangles have an area of 24 square inches?</p>	<p><b>Process</b></p>	
<p>Select <b>TWO</b> correct answers.</p>	<p><b>Item Type</b></p>	<p>Multiselect (2 pts)</p>
<p><input type="checkbox"/> </p>	<p><b>Stimulus</b></p>	
<b>Data Analysis</b>		
	<p><b>Item</b></p>	<p><b>State</b></p>
	<p><b>Full Credit</b></p>	<p><b>56</b></p>
	<p><b>No Credit</b></p>	<p><b>17</b></p>
	<p><b>Partial Credit</b></p>	<p><b>27</b></p>
<b>Error Analysis</b>		
	<p><input type="checkbox"/> Guessing</p>	<p><input type="checkbox"/> Mixed Up Concepts</p>
	<p><input type="checkbox"/> Careless Error</p>	<p><input type="checkbox"/> Stopped Too Early</p>
<b>Learning from Mistakes</b>		
<b>Instructional Implications</b>		
<b>*Correct Answer (A, E)</b>		

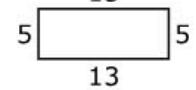
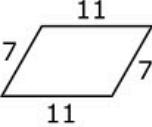
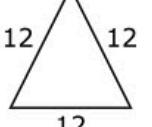
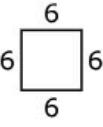
<p><b>3.6(C)</b> determine the area of rectangles with whole number side lengths in problems using multiplication related to the number of rows times the number of unit squares in each row</p>	<p><b>Analysis of Assessed Standards</b></p>																
<p>2022 – Q5</p> <p><b>5</b> The rectangular floor of Ms. Ragan’s closet is completely covered with carpet squares. Each carpet square covers 1 square foot of the floor. There are 4 rows, and each row has 16 carpet squares.</p> <p>What is the area of the floor of this closet in square feet?</p> <p>Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.</p>	<table border="1"> <tr> <td><b>Cluster</b></td><td>Measurement</td></tr> <tr> <td><b>Subcluster</b></td><td>Area</td></tr> <tr> <td><b>Content</b></td><td>Readiness</td></tr> <tr> <td><b>Process</b></td><td></td></tr> <tr> <td><b>Stimulus</b></td><td></td></tr> </table>	<b>Cluster</b>	Measurement	<b>Subcluster</b>	Area	<b>Content</b>	Readiness	<b>Process</b>		<b>Stimulus</b>							
<b>Cluster</b>	Measurement																
<b>Subcluster</b>	Area																
<b>Content</b>	Readiness																
<b>Process</b>																	
<b>Stimulus</b>																	
	<p><b>Data Analysis</b></p> <table border="1"> <thead> <tr> <th>Item</th><th>State</th><th>Local</th></tr> </thead> <tbody> <tr> <td>64</td><td>53*</td><td></td></tr> <tr> <td></td><td>47</td><td></td></tr> <tr> <td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td></tr> </tbody> </table>	Item	State	Local	64	53*			47								
Item	State	Local															
64	53*																
	47																
<p>*Correct Answer (64)</p>	<p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts</p> <p><input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>																

<p><b>3.6(C)</b> determine the area of rectangles with whole number side lengths in problems using multiplication related to the number of rows times the number of unit squares in each row</p>	<p><b>Analysis of Assessed Standards</b></p>																
<p>2022 – Q18</p>	<table border="1"> <tr> <td><b>Cluster</b></td><td>Measurement</td></tr> <tr> <td><b>Subcluster</b></td><td>Area</td></tr> <tr> <td><b>Content</b></td><td>Readiness</td></tr> <tr> <td><b>Process</b></td><td></td></tr> <tr> <td><b>Stimulus</b></td><td></td></tr> </table>	<b>Cluster</b>	Measurement	<b>Subcluster</b>	Area	<b>Content</b>	Readiness	<b>Process</b>		<b>Stimulus</b>							
<b>Cluster</b>	Measurement																
<b>Subcluster</b>	Area																
<b>Content</b>	Readiness																
<b>Process</b>																	
<b>Stimulus</b>																	
<p><b>18</b> Ms. González is putting square stickers on a rectangular poster. Each sticker has an area of 1 square inch. She has already put some stickers on the poster as shown.</p>	<table border="1"> <tr> <td><b>Data Analysis</b></td></tr> <tr> <td><b>Item</b></td><td><b>State</b></td><td><b>Local</b></td></tr> <tr> <td>F*</td><td>71</td><td></td></tr> <tr> <td>G</td><td>9</td><td></td></tr> <tr> <td>H</td><td>9</td><td></td></tr> <tr> <td>J</td><td>11</td><td></td></tr> </table>	<b>Data Analysis</b>	<b>Item</b>	<b>State</b>	<b>Local</b>	F*	71		G	9		H	9		J	11	
<b>Data Analysis</b>																	
<b>Item</b>	<b>State</b>	<b>Local</b>															
F*	71																
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<b>Error Analysis</b>																	
<input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts																	
<input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early																	
<p>What is the area of the entire poster in square inches?</p> <p><b>F</b> 56  <b>G</b> 42  <b>H</b> 48  <b>J</b> 15</p> <p>*Correct Answer (F)</p>	<table border="1"> <tr> <td><b>Learning from Mistakes</b></td></tr> <tr> <td><b>Instructional Implications</b></td></tr> </table>	<b>Learning from Mistakes</b>	<b>Instructional Implications</b>														
<b>Learning from Mistakes</b>																	
<b>Instructional Implications</b>																	

3.6(D) decompose composite figures formed by rectangles into non-overlapping rectangles to determine the area of the original figure using the additive property of area		Analysis of Assessed Standards	
2023 – Q3		Cluster	Measurement
The shaded figure on the grid represents the ceiling of a closet. The ceiling has two rectangular sections.		Subcluster	Area
		Content	Supporting
$\square = 1 \text{ square foot}$		Process	
What is the area of the ceiling in square feet?		Item Type	Multiple Choice (1 pt)
<p>(A) 12 square feet</p> <p>(B) 10 square feet</p> <p>(C) 20 square feet</p> <p>(D) 16 square feet</p>		Stimulus	
		Data Analysis	
		Item	State
		A	8
		B	4
		C	12
		D*	75
		Error Analysis	
		<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts
		<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
		Learning from Mistakes Instructional Implications	

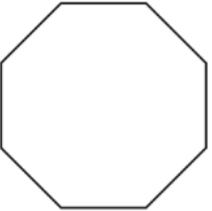
\*Correct Answer (D)

3.7(B) determine the perimeter of a polygon or a missing length when given perimeter and remaining side lengths in problems		Analysis of Assessed Standards	
<b>!</b> 2025 – Q11	Evelyn makes a rectangular birthday card. The card has a length of 9 inches and a width of 6 inches. What is the perimeter of Evelyn's card in inches?	<b>Cluster</b>	Measurement
		<b>Subcluster</b>	Perimeter
		<b>Content</b>	Readiness
		<b>Process</b>	
		<b>Item Type</b>	Multiple Choice (1 pt)
		<b>Stimulus</b>	
Data Analysis			
		<b>Item</b>	<b>State</b>
		A	
		B*	47
		C	
		D	
Error Analysis			
		<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts
		<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
Learning from Mistakes Instructional Implications			
*Correct Answer (B)			

<p><b>3.7(B)</b> determine the perimeter of a polygon or a missing length when given perimeter and remaining side lengths in problems</p> <p>2024 – Q6</p> <p>Zachary drew these figures. The dimensions of each figure are given in feet.</p>	<p><b>Analysis of Assessed Standards</b></p> <table border="1"> <tr> <td>Cluster</td><td>Measurement</td></tr> <tr> <td>Subcluster</td><td>Perimeter</td></tr> <tr> <td>Content</td><td>Readiness</td></tr> <tr> <td>Process</td><td></td></tr> <tr> <td>Item Type</td><td>Multiple Choice (1 pt)</td></tr> <tr> <td>Stimulus</td><td></td></tr> <tr> <td colspan="2">Data Analysis</td></tr> <tr> <th>Item</th><th>State</th><th>Local</th></tr> <tr> <td>A*</td><td>71</td><td></td></tr> <tr> <td>B</td><td></td><td></td></tr> <tr> <td>C</td><td></td><td></td></tr> <tr> <td>D</td><td></td><td></td></tr> <tr> <td colspan="3">Error Analysis</td></tr> <tr> <td colspan="3"> <input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts  <input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early       </td></tr> <tr> <td colspan="3"> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p> </td></tr> </table>	Cluster	Measurement	Subcluster	Perimeter	Content	Readiness	Process		Item Type	Multiple Choice (1 pt)	Stimulus		Data Analysis		Item	State	Local	A*	71		B			C			D			Error Analysis			<input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early			<p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>		
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<p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>																																							
<p>Figure P</p>  <p>Figure Q</p> 																																							
<p>Figure R</p>  <p>Figure S</p>  <p>Figure T</p> 																																							
<p>Which list shows all the figures that have a perimeter of 36 feet?</p> <p>(A) Figures P, Q, R, and S only</p> <p>(B) Figures Q, R, and T only</p> <p>(C) Figures P, R, and S only</p> <p>(D) Figures P, Q, R, S, and T</p> <p>*Correct Answer (A)</p>																																							

<b>3.7(B)</b> determine the perimeter of a polygon or a missing length when given perimeter and remaining side lengths in problems	<b>Analysis of Assessed Standards</b>		
! 2024 – Q18	<b>Cluster</b>	Measurement	
A rectangular flag has a perimeter of 40 inches and a width of 5 inches.	<b>Subcluster</b>	Perimeter	
What is the length of the flag in inches?	<b>Content</b>	Readiness	
(A) 15 in. (B) 8 in. (C) 30 in. (D) 35 in.	<b>Process</b>		
	<b>Item Type</b>	Multiple Choice (1 pt)	
	<b>Stimulus</b>		
	<b>Data Analysis</b>		
	<b>Item</b>	<b>State</b>	<b>Local</b>
	A*	27	
	B		
	C		
	D		
*Correct Answer (A)	<b>Error Analysis</b> <input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early		
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

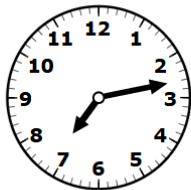
<b>3.7(B)</b> determine the perimeter of a polygon or a missing length when given perimeter and remaining side lengths in problems	<b>Analysis of Assessed Standards</b>		
2023 – Q21	<b>Cluster</b>	Measurement	
Vince built a fence around his rectangular garden. The perimeter of the garden is 26 feet. The length of the garden is 8 feet.	<b>Subcluster</b>	Perimeter	
What is the width of the garden in feet?	<b>Content</b>	Readiness	
(A) 5 ft (B) 10 ft (C) 8 ft (D) 16 ft	<b>Process</b>		
	<b>Item Type</b>	Multiple Choice (1 pt)	
	<b>Stimulus</b>		
	<b>Data Analysis</b>		
	<b>Item</b>	<b>State</b>	<b>Local</b>
	A*	27	
	B	21	
	C	19	
	D	34	
*Correct Answer (A)	<b>Error Analysis</b> <input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early		
	<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

<p><b>3.7(B)</b> determine the perimeter of a polygon or a missing length when given perimeter and remaining side lengths in problems</p>	<p><b>Analysis of Assessed Standards</b></p>														
<p>! 2022 – Q16</p>	<p><b>Cluster</b> Measurement</p>														
<p><b>16</b> Each side of this figure is the same length. The perimeter of the figure is 72 inches.</p>	<p><b>Subcluster</b> Perimeter</p>														
	<p><b>Content</b> Readiness</p>														
	<p><b>Process</b></p>														
	<p><b>Stimulus</b></p>														
	<p><b>Data Analysis</b></p>														
<table border="1"> <thead> <tr> <th data-bbox="1171 492 1237 538">Item</th> <th data-bbox="1286 492 1351 538">State</th> <th data-bbox="1416 492 1481 538">Local</th> </tr> </thead> <tbody> <tr> <td data-bbox="1171 538 1237 585">F</td> <td data-bbox="1286 538 1351 585">33</td> <td data-bbox="1416 538 1481 585"></td> </tr> <tr> <td data-bbox="1171 585 1237 631">G</td> <td data-bbox="1286 585 1351 631">11</td> <td data-bbox="1416 585 1481 631"></td> </tr> <tr> <td data-bbox="1171 631 1237 677">H*</td> <td data-bbox="1286 631 1351 677">46</td> <td data-bbox="1416 631 1481 677"></td> </tr> <tr> <td data-bbox="1171 677 1237 724">J</td> <td data-bbox="1286 677 1351 724">10</td> <td data-bbox="1416 677 1481 724"></td> </tr> </tbody> </table>	Item	State	Local	F	33		G	11		H*	46		J	10	
Item	State	Local													
F	33														
G	11														
H*	46														
J	10														
	<p><b>Error Analysis</b></p>														
	<p><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts</p>														
	<p><input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p>														
	<p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>														
<p>What is the length of one side of the figure in inches?</p> <p><b>F</b> 8 in.  <b>G</b> 12 in.  <b>H</b> 9 in.  <b>J</b> 18 in.</p>															

\*Correct Answer (H)

		Analysis of Assessed Standards			
<b>!</b>	2025 – Q26	<b>Cluster</b>	Measurement		
Gemma reads a book for 1 hour and 20 minutes. She finishes reading at 7:13 p.m. as shown on the clock.		<b>Subcluster</b>	Time		
		<b>Content</b>	Supporting		
		<b>Process</b>			
		<b>Item Type</b>	Multiple Choice (1 pt)		
		<b>Stimulus</b>			
<b>Data Analysis</b>					
	<b>Item</b>	<b>State</b>	<b>Local</b>		
	A				
	B*	41			
	C				
	D				
<b>Error Analysis</b>					
<input type="checkbox"/> Guessing		<input type="checkbox"/> Mixed Up Concepts			
<input type="checkbox"/> Careless Error		<input type="checkbox"/> Stopped Too Early			
<b>Learning from Mistakes</b>					
<b>Instructional Implications</b>					

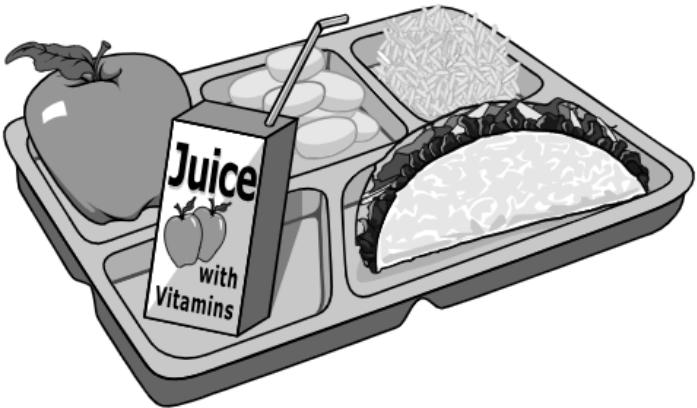
\*Correct Answer (B)



What time did Gemma start reading her book?

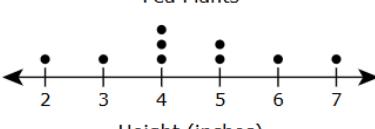
- (A) 6:13 p.m.
- (B) 5:53 p.m.
- (C) 8:33 p.m.
- (D) 6:53 p.m.

3.7(D) determine when it is appropriate to use measurements of liquid volume (capacity) or weight		Analysis of Assessed Standards		
2024 – Q29	Guadalupe has a bottle of juice. Which unit of measurement could be used to measure the volume of juice in the bottle?	Cluster	Measurement	
		Subcluster	Liquid Capacity/Weight	
		Content	Supporting	
		Process		
		Item Type	Multiple Choice (1 pt)	
		Stimulus		
Data Analysis				
Item	State	Local		
A				
B				
C				
D*	61			
Error Analysis				
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts			
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early			
Learning from Mistakes Instructional Implications				
*Correct Answer (D)				

3.7(E) determine liquid volume (capacity) or weight using appropriate units and tools		Analysis of Assessed Standards			
<b>!</b>	2023 – Q6	Cluster	Measurement		
	Hannah gets a juice box like the one shown when she buys a lunch.	Subcluster	Liquid Capacity/Weight		
		Content	Supporting		
		Process			
		Item Type	Multiple Choice (1 pt)		
		Stimulus			
Data Analysis					
Item	State	Local			
A	31				
B*	28				
C	33				
D	8				
Error Analysis					
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts				
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early				
Learning from Mistakes Instructional Implications					
<b>*Correct Answer (B)</b>					

# Data Analysis

**3.8 Data analysis.** The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data.

3.8(A) summarize a data set with multiple categories using a frequency table, dot plot, pictograph, or bar graph with scaled intervals		Analysis of Assessed Standards	
2025 – Q5	Cluster	Data Analysis	
A student measures the heights of some pea plants in inches. The dot plot shows his data.	Subcluster	Representation of Data	
 <p>Each ● represents 1 pea plant.</p>	Content	Readiness	
Which list represents the heights of the pea plants in inches?	Process		
<input type="radio"/> A 2 3 4 4 4 5 5 6 6 7	Item Type	Multiple Choice (1 pt)	
<input checked="" type="radio"/> B* 2 3 4 4 4 5 5 6 7	Stimulus		
<input type="radio"/> C 2 3 4 4 5 5 6 7	Data Analysis		
<input type="radio"/> D 2 3 4 5 6 7	Item	State	Local
*Correct Answer (B)	Error Analysis		
	<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	
	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early	
	Learning from Mistakes Instructional Implications		

**3.8(A)** summarize a data set with multiple categories using a frequency table, dot plot, pictograph, or bar graph with scaled intervals

### Analysis of Assessed Standards

Cluster	Data Analysis
Subcluster	Representation of Data
Content	Readiness
Process	
Item Type	Multiple Choice (1 pt)
Stimulus	

### Data Analysis

Item	State	Local
A		
B		
C		
D*	52	

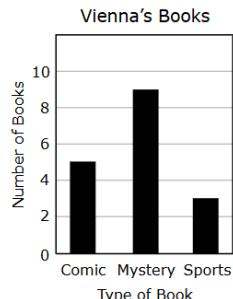
### Error Analysis

- Guessing       Mixed Up Concepts  
 Careless Error     Stopped Too Early

### Learning from Mistakes Instructional Implications

! 2025 – Q12

Vienna creates a bar graph and a pictograph to show what types of books she owns. She has 5 comic books, 9 mystery books, and 3 sports books. She makes an error in one of the graphs, as shown.



Which graph has the error?

- (A) Bar graph, because the bar for mystery books should be at 9  
 (B) Pictograph, because the row for mystery books should have 4 whole symbols and one half symbol  
 (C) Bar graph, because the bar for sports books should be at 4  
 (D) Pictograph, because the row for sports books should have one whole symbol and one half symbol

\*Correct Answer (D)

<p><b>3.8(A)</b> summarize a data set with multiple categories using a frequency table, dot plot, pictograph, or bar graph with scaled intervals</p> <p>2024 – Q3</p> <p>Ben rolls a number cube 10 times and records the results shown.</p> <p style="text-align: center;">6    3    5    4    4    1    5    3    6    5</p> <p>He then creates the dot plot shown with the results.</p> <p style="text-align: center;"><b>Number Cube Rolls</b></p> <p style="text-align: center;">Number Rolled</p> <p>Each ● means 1 roll.</p> <p>Complete the sentence by selecting the correct answers from the drop-down menus.</p> <p>Ben's dot plot is incorrect because there should be <input type="text"/> above the number <input type="text"/></p> <p>*Correct Answer (2 dots; 4)</p>	<b>Analysis of Assessed Standards</b>	
<b>Cluster</b>	Data Analysis	
<b>Subcluster</b>	Representation of Data	
<b>Content</b>	Readiness	
<b>Process</b>		
<b>Item Type</b>	Inline Choice (2 pts)	
<b>Stimulus</b>		
<b>Data Analysis</b>		
<b>Item</b>	<b>State</b>	<b>Local</b>
Full Credit	52	
No Credit	26	
Partial Credit	22	
<b>Error Analysis</b>		
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early	
<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

**3.8(A)** summarize a data set with multiple categories using a frequency table, dot plot, pictograph, or bar graph with scaled intervals

2024 – Q19

A restaurant sells four sizes of pizza. The table shows the pizzas sold.

Pizzas Sold	
Size	Number
Small	4
Medium	10
Large	18
Extra large	8

Which pictograph shows the data in the table?

(A)

Pizzas Sold	
Size	Number
Small	◎
Medium	◎◎◎
Large	◎◎◎◎◎
Extra large	◎◎

Each ◎ represents 4 pizzas.

(C)

Pizzas Sold	
Size	Number
Small	◎
Medium	◎◎
Large	◎◎◎◎
Extra large	◎◎

Each ◎ represents 4 pizzas.

(B)

Pizzas Sold	
Size	Number
Small	◎
Medium	◎◎◎
Large	◎◎
Extra large	◎◎◎◎

Each ◎ represents 4 pizzas.

(D)

Pizzas Sold	
Size	Number
Small	◎
Medium	◎◎◎
Large	◎◎◎◎
Extra large	◎◎

Each ◎ represents 4 pizzas.

\* Correct Answer (D)

#### Analysis of Assessed Standards

**Cluster** Data Analysis

**Subcluster** Representation of Data

**Content** Readiness

**Process**

**Item Type** Multiple Choice (1 pt)

**Stimulus**

#### Data Analysis

Item	State	Local
A		
B		
C		
D*	74	

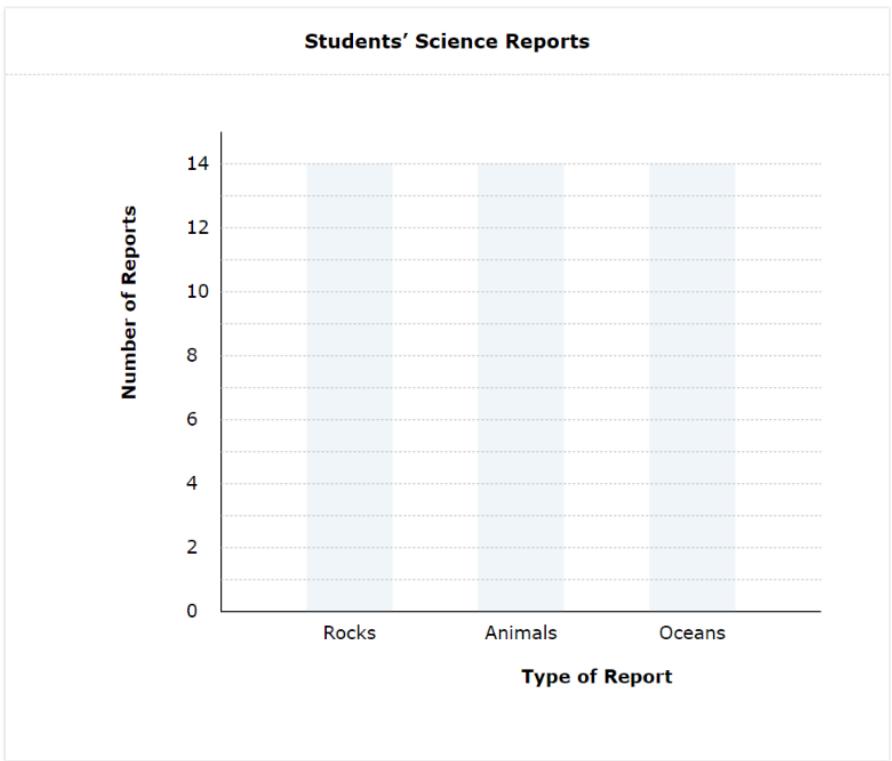
#### Error Analysis

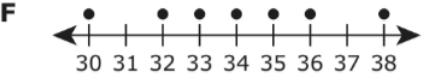
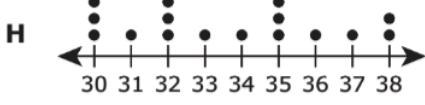
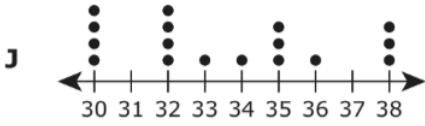
- Guessing       Mixed Up Concepts
- Careless Error     Stopped Too Early

#### Learning from Mistakes Instructional Implications

<p><b>3.8(A)</b> summarize a data set with multiple categories using a frequency table, dot plot, pictograph, or bar graph with scaled intervals</p>	<b>Analysis of Assessed Standards</b>																
<p><b>!</b> 2023 – Q11</p> <p>Miyoung uses a computer to randomly generate numbers between 1 and 10. The results are shown in the dot plot.</p> <p style="text-align: center;"><b>Miyoung's Numbers</b></p> <p style="text-align: center;">Each ● means 1 number.</p> <p>Which list of numbers represents Miyoung's results?</p> <p>(A) 1 2 4 5 7 8 9</p> <p>(B) 1 2 3 4 5 6 7 8 9 10</p> <p>(C) 1 2 4 5 7 8 9 10</p> <p>(D) 1 2 4 4 5 5 7 7 8 9</p>	<p><b>Cluster</b> Data Analysis</p> <p><b>Subcluster</b> Representation of Data</p> <p><b>Content</b> Readiness</p> <p><b>Process</b></p> <p><b>Item Type</b> Multiple Choice (1 pt)</p> <p><b>Stimulus</b></p>	<p><b>Data Analysis</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; background-color: #cccccc;">Item</th> <th style="text-align: left; background-color: #cccccc;">State</th> <th style="text-align: left; background-color: #cccccc;">Local</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>38</td> <td></td> </tr> <tr> <td>B</td> <td>15</td> <td></td> </tr> <tr> <td>C</td> <td>3</td> <td></td> </tr> <tr> <td>D*</td> <td>44</td> <td></td> </tr> </tbody> </table> <p><b>Error Analysis</b></p> <p><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts</p> <p><input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</p> <p style="text-align: center;"><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>	Item	State	Local	A	38		B	15		C	3		D*	44	
Item	State	Local															
A	38																
B	15																
C	3																
D*	44																

\*Correct Answer (D)

<p><b>3.8(A)</b> summarize a data set with multiple categories using a frequency table, dot plot, pictograph, or bar graph with scaled intervals</p>	<p><b>Analysis of Assessed Standards</b></p>															
<p>2023 – Q22</p> <p>The table shows the number of each type of science report that third-grade students completed.</p>	<p><b>Cluster</b> Data Analysis</p>															
<table border="1" data-bbox="425 340 817 508"> <thead> <tr> <th>Type of Report</th> <th>Number of Reports</th> </tr> </thead> <tbody> <tr> <td>Rocks</td> <td>6</td> </tr> <tr> <td>Animals</td> <td>12</td> </tr> <tr> <td>Oceans</td> <td>9</td> </tr> </tbody> </table>	Type of Report	Number of Reports	Rocks	6	Animals	12	Oceans	9	<p><b>Subcluster</b> Representation of Data</p>							
Type of Report	Number of Reports															
Rocks	6															
Animals	12															
Oceans	9															
<p>Complete the bar graph to show the data in the table.</p> <p>Select the correct height for each bar in the graph.</p>	<p><b>Content</b> Readiness</p>															
<p><b>Students' Science Reports</b></p>  <p>*Correct Answer (Rocks: bar at 6, Animals: bar at 12, Oceans: bar at 9)</p>	<p><b>Process</b></p> <p><b>Item Type</b> Graphing (2 pts)</p> <p><b>Stimulus</b></p> <p><b>Data Analysis</b></p> <table border="1" data-bbox="1122 677 1512 1121"> <thead> <tr> <th>Item</th> <th>State</th> <th>Local</th> </tr> </thead> <tbody> <tr> <td>Full Credit</td> <td>79</td> <td></td> </tr> <tr> <td>No Credit</td> <td>8</td> <td></td> </tr> <tr> <td>Partial Credit</td> <td>13</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><b>Error Analysis</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Guessing      <input type="checkbox"/> Mixed Up Concepts</li> <li><input type="checkbox"/> Careless Error    <input type="checkbox"/> Stopped Too Early</li> </ul> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>	Item	State	Local	Full Credit	79		No Credit	8		Partial Credit	13				
Item	State	Local														
Full Credit	79															
No Credit	8															
Partial Credit	13															

<p><b>3.8(A)</b> summarize a data set with multiple categories using a frequency table, dot plot, pictograph, or bar graph with scaled intervals</p>	<b>Analysis of Assessed Standards</b>																
2022 – Q6	<b>Cluster</b>	Data Analysis															
6 The numbers listed show the speed in miles per hour Henry pitched a baseball.	<b>Subcluster</b>	Representation of Data															
30, 32, 38, 30, 33, 34, 32, 35, 38, 36, 35, 32, 30, 32, 35	<b>Content</b>	Readiness															
Which dot plot represents the speed of Henry's pitches?	<b>Process</b>																
<b>F</b> 	<b>H</b> 																
<b>G</b> 	<b>J</b> 																
<b>Data Analysis</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Item</th> <th style="text-align: left;">State</th> <th style="text-align: left;">Local</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">F</td> <td style="text-align: left;">6</td> <td></td> </tr> <tr> <td style="text-align: left;">G*</td> <td style="text-align: left;">71</td> <td></td> </tr> <tr> <td style="text-align: left;">H</td> <td style="text-align: left;">14</td> <td></td> </tr> <tr> <td style="text-align: left;">J</td> <td style="text-align: left;">9</td> <td></td> </tr> </tbody> </table>			Item	State	Local	F	6		G*	71		H	14		J	9	
Item	State	Local															
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G*	71																
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<b>Error Analysis</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><input type="checkbox"/> Guessing</td> <td style="width: 50%;"><input type="checkbox"/> Mixed Up Concepts</td> </tr> <tr> <td><input type="checkbox"/> Careless Error</td> <td><input type="checkbox"/> Stopped Too Early</td> </tr> </table>			<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early											
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts																
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early																
<b>Learning from Mistakes</b> <b>Instructional Implications</b>																	

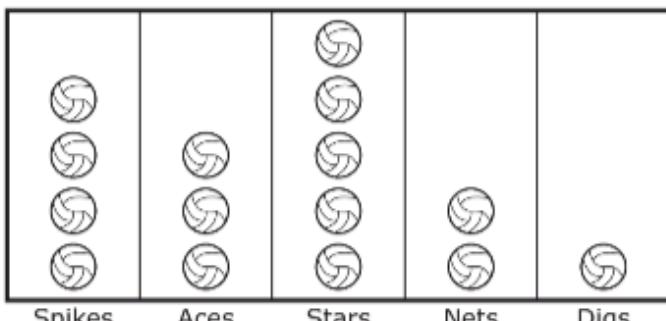
\*Correct Answer (G)

**3.8(A)** summarize a data set with multiple categories using a frequency table, dot plot, pictograph, or bar graph with scaled intervals

2022 – Q31

- 31** The pictograph shows the number of games each team in a volleyball league won during one season.

Volleyball Games Won



Each means 3 games won.

Which table represents the data in the pictograph?

Volleyball Games Won

A	Team	Spikes	Aces	Stars	Nets	Digs
	Number of Games Won	12	15	9	6	3

Volleyball Games Won

B	Team	Spikes	Aces	Stars	Nets	Digs
	Number of Games Won	4	3	5	2	1

Volleyball Games Won

C	Team	Spikes	Aces	Stars	Nets	Digs
	Number of Games Won	12	9	15	6	3

Volleyball Games Won

D	Team	Spikes	Aces	Stars	Nets	Digs
	Number of Games Won	4	5	3	2	1

\*Correct Answer (C)

#### Analysis of Assessed Standards

**Cluster** Data Analysis

**Subcluster** Representation of Data

**Content** Readiness

**Process**

**Stimulus**

#### Data Analysis

Item	State	Local
------	-------	-------

A 6

B 15

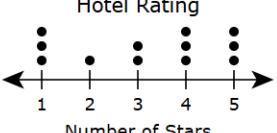
C\* 77

D 2

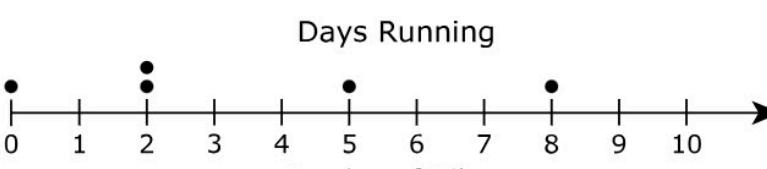
#### Error Analysis

Guessing  Mixed Up Concepts  
 Careless Error  Stopped Too Early

#### Learning from Mistakes Instructional Implications

3.8(B) solve one- and two-step problems using categorical data represented with a frequency table, dot plot, pictograph, or bar graph with scaled intervals		Analysis of Assessed Standards	
<b>!</b> 2025 – Q28	The owner of a hotel asks guests to rate the hotel on a scale of 1 to 5 stars. The data are shown in the dot plot.	<b>Cluster</b>	Data Analysis
		<b>Subcluster</b>	Interpretation of Data
	Each ● represents 1 guest's rating.	<b>Content</b>	Supporting
	How many guests rated the hotel fewer than 3 stars?	<b>Process</b>	
(A) 2		<b>Item Type</b>	Multiple Choice (1 pt)
(B) 3		<b>Stimulus</b>	
(C) 6		Data Analysis	
(D) 4		<b>Item</b>	<b>State</b>
		A	
		B	
		C	
		D*	33
<b>Error Analysis</b>		Learning from Mistakes Instructional Implications	
<input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early			

\*Correct Answer (D)

<b>3.8(B)</b> solve one- and two-step problems using categorical data represented with a frequency table, dot plot, pictograph, or bar graph with scaled intervals	<b>Analysis of Assessed Standards</b>	
! 2024 – Q14	<b>Cluster</b>	Data Analysis
The dot plot shows the numbers of miles Joseph ran on five days. Joseph ran on one more day, but the dot is missing from the dot plot.	<b>Subcluster</b>	Interpretation of Data
	<b>Content</b>	Supporting
	<b>Process</b>	
	<b>Item Type</b>	Multiple Choice (1 pt)
	<b>Stimulus</b>	
<b>Data Analysis</b>		
(A) 6	<b>Item</b>	State
(B) 8		Local
(C) 17	A	
(D) 10	B*	32
(E) 12	C	
(F) 14	D	
<b>Error Analysis</b>		
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early	
<b>Learning from Mistakes</b> <b>Instructional Implications</b>		

\*Correct Answer (B)

# Personal Financial Literacy

**3.9 Personal financial literacy.** The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security.

3.9(E) list reasons to save and explain the benefit of a savings plan, including for college		Analysis of Assessed Standards			
2023 – Q5		Cluster	Personal Financial Literacy		
		Subcluster	Earning, Spending, and Saving		
		Content	Supporting		
		Process			
		Item Type	Multiselect (2 pts)		
		Stimulus			
Data Analysis					
Item	State	Local			
Full Credit	38				
No Credit	15				
Partial Credit	47				
Error Analysis					
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts				
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early				
Learning from Mistakes Instructional Implications					
*Correct Answer (C, E)					

3.9(D) explain that credit is used when wants or needs exceed the ability to pay and that it is the borrower's responsibility to pay it back to the lender, usually with interest		Analysis of Assessed Standards	
2025 – Q22		<b>Cluster</b>	Personal Financial Literacy
		<b>Subcluster</b>	Borrowing
		<b>Content</b>	Supporting
		<b>Process</b>	
		<b>Item Type</b>	Multiple Choice (1 pt)
		<b>Stimulus</b>	
Data Analysis			
Item	State	Local	
A			
B			
C			
D*	29		
Error Analysis			
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts		
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early		
Learning from Mistakes Instructional Implications			

\*Correct Answer (D)

3.9(D) explain that credit is used when wants or needs exceed the ability to pay and that it is the borrower's responsibility to pay it back to the lender, usually with interest	Analysis of Assessed Standards															
<span style="color: #800000;">!</span> 2024 – Q24	<b>Cluster</b> Personal Financial Literacy <b>Subcluster</b> Borrowing <b>Content</b> Supporting <b>Process</b> <b>Item Type</b> Multiple Choice (1 pt) <b>Stimulus</b>															
Which statement is an example of using credit?																
<p><b>(A)</b> Dante saves \$100 per paycheck.</p>																
<p><b>(B)</b> Baylee budgets \$85 for groceries each week.</p>																
<p><b>(C)</b> Maria borrows \$400 for car repairs.</p>																
<p><b>(D)</b> Nina earns \$250 in tips at work.</p>																
<small>*Correct Answer (C)</small>	<b>Data Analysis</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">Item</th> <th style="text-align: center; padding: 2px;">State</th> <th style="text-align: center; padding: 2px;">Local</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">A</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;">B</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"><b>C*</b></td> <td style="text-align: center; padding: 2px;"><b>30</b></td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;">D</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table> <b>Error Analysis</b> <input type="checkbox"/> Guessing <input type="checkbox"/> Mixed Up Concepts <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early <b>Learning from Mistakes</b> <b>Instructional Implications</b>	Item	State	Local	A			B			<b>C*</b>	<b>30</b>		D		
Item	State	Local														
A																
B																
<b>C*</b>	<b>30</b>															
D																

3.9(A) explain the connection between human capital/labor and income		Analysis of Assessed Standards			
<b>!</b>	2022 – Q4	<b>Cluster</b>	Personal Financial Literacy		
<b>4</b>	Trey is describing his labor and income. Which statement could be a description of both labor and income for Trey?	<b>Subcluster</b>	Economics		
<b>F</b>	Trey does volunteer work at a hospital.	<b>Content</b>	Supporting		
<b>G</b>	Trey pays a company to repair his roof.	<b>Process</b>			
<b>H</b>	Trey takes \$25 out of his bank account and spends the money at a store.	<b>Stimulus</b>			
<b>J</b>	Trey takes dogs for a walk after school and earns \$25.	Data Analysis			
		<b>Item</b>	<b>State</b>		
		<b>F</b>	<b>24</b>		
		<b>G</b>	<b>10</b>		
		<b>H</b>	<b>17</b>		
		<b>J*</b>	<b>49</b>		
<b>Error Analysis</b>					
<input type="checkbox"/> Guessing		<input type="checkbox"/> Mixed Up Concepts			
<input type="checkbox"/> Careless Error		<input type="checkbox"/> Stopped Too Early			
<b>Learning from Mistakes</b>					
<b>Instructional Implications</b>					
*Correct Answer (J)					

<b>3.9(B) describe the relationship between the availability or scarcity of resources and how that impacts cost</b>		<b>Analysis of Assessed Standards</b>			
<b>!</b>	2024 – Q5	<b>Cluster</b>	Personal Financial Literacy		
	Farmers planted more orange trees, resulting in an increase in the orange crop this year. This will affect the price of oranges.	<b>Subcluster</b>	Economics		
	Which statement best describes the effect on the price of oranges this year?	<b>Content</b>	Supporting		
	<b>Process</b>				
	<b>Item Type</b>	Multiple Choice (1 pt)			
	<b>Stimulus</b>				
<b>Data Analysis</b>					
Item	State	Local			
A					
B*	44				
C					
D					
<b>Error Analysis</b>					
<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts				
<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early				
<b>Learning from Mistakes</b>					
<b>Instructional Implications</b>					

\*Correct Answer (B)

<p><b>3.9(B)</b> describe the relationship between the availability or scarcity of resources and how that impacts cost</p> <p>! 2022 – Q20</p> <p><b>20</b> Dahlia sold pineapples at a fruit stand. The table shows the number of pineapples Dahlia had for sale each week and the number of customers she expected to come to her fruit stand.</p> <p style="text-align: center;"><b>Dahlia's Pineapples</b></p> <table border="1" data-bbox="187 401 1052 707"> <thead> <tr> <th></th><th>Week 1</th><th>Week 2</th><th>Week 3</th><th>Week 4</th></tr> </thead> <tbody> <tr> <td>Number of Pineapples</td><td>110</td><td>150</td><td>200</td><td>25</td></tr> <tr> <td>Number of Expected Customers</td><td>50</td><td>150</td><td>40</td><td>50</td></tr> </tbody> </table> <p>In which week did Dahlia most likely sell her pineapples for the highest price?</p> <p><b>F</b> Week 1, because the number of pineapples was greater than the expected number of customers</p> <p><b>G</b> Week 2, because the number of pineapples was the same as the expected number of customers</p> <p><b>H</b> Week 3, because fewer customers were expected to come to the fruit stand this week than any other week</p> <p><b>J</b> Week 4, because the number of pineapples was less than the expected number of customers</p> <p>*Correct Answer (J)</p>		Week 1	Week 2	Week 3	Week 4	Number of Pineapples	110	150	200	25	Number of Expected Customers	50	150	40	50	<p><b>Analysis of Assessed Standards</b></p> <table border="1" data-bbox="1117 147 1501 359"> <tr> <td><b>Cluster</b></td><td>Personal Financial Literacy</td></tr> <tr> <td><b>Subcluster</b></td><td>Economics</td></tr> <tr> <td><b>Content</b></td><td>Supporting</td></tr> <tr> <td><b>Process</b></td><td></td></tr> <tr> <td><b>Stimulus</b></td><td></td></tr> </table> <p><b>Data Analysis</b></p> <table border="1" data-bbox="1117 432 1501 644"> <tr> <th>Item</th><th>State</th><th>Local</th></tr> <tr> <td>F</td><td>9</td><td></td></tr> <tr> <td>G</td><td>38</td><td></td></tr> <tr> <td>H</td><td>33</td><td></td></tr> <tr> <td>J*</td><td>20</td><td></td></tr> </table> <p><b>Error Analysis</b></p> <table border="0" data-bbox="1117 675 1501 749"> <tr> <td><input type="checkbox"/> Guessing</td><td><input type="checkbox"/> Mixed Up Concepts</td></tr> <tr> <td><input type="checkbox"/> Careless Error</td><td><input type="checkbox"/> Stopped Too Early</td></tr> </table> <p><b>Learning from Mistakes</b> <b>Instructional Implications</b></p>	<b>Cluster</b>	Personal Financial Literacy	<b>Subcluster</b>	Economics	<b>Content</b>	Supporting	<b>Process</b>		<b>Stimulus</b>		Item	State	Local	F	9		G	38		H	33		J*	20		<input type="checkbox"/> Guessing	<input type="checkbox"/> Mixed Up Concepts	<input type="checkbox"/> Careless Error	<input type="checkbox"/> Stopped Too Early
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