

STUDENT READINESS ASSESSMENT ITEM RELEASE GUIDE STUDENT EDITION GRADE 3 MATHEMATICS

# Grade 3 Reporting Category:

# **Multiplication and Division**

**CRITICAL AREA OF FOCUS #1** Developing understanding of multiplication and division and strategies for multiplication and division within 100.

Mrs. Tate arranges 24 desks into rows. Each row has the same number of desks.

Complete the table to show one way that Mrs. Tate could arrange all of the desks into rows.

Number of Rows	Number of Desks in Each Row					

### Question

Andre wants to plant 72 flowers in a garden.

- The garden should have at least 3 rows of flowers.
- Each row should have the same number of flowers.
- Each row should have at least 3 flowers.

Enter numbers into the table to show two different ways that Andre can plant the flowers.

	Number of Rows	Number of Flowers in Each Row
First Way		
Second Way		

### Question

A girl makes 36 bracelets. She gives an equal number of bracelets to each of her 9 friends.

Which expression shows how many bracelets she gives to each friend?

- A 36+9
- B 36-9
- © 36×9
- 36÷9

At lunch, there are 48 third-graders. Every table in the lunchroom has the same number of chairs. Every student has a seat and every table is full.

How many tables are needed? Enter the number in the first box.

How many chairs are there at each table? Enter the number in the second box.

• There may be more than one correct answer.

Number of tables:

Number of chairs at each table:

### Question

Miss Lewis teaches 3 dance classes. There are 9 students in each class.

How many students does Miss Lewis teach? Enter the number in the box.

	6	×		=	42
Enter the unknown value in each equation.					
equation.		÷	4	=	9
	15	=		×	3
	15	_		^	3
	7	=	14	÷	
		[			

Which expression is equivalent to  $3 \times 7$ ?

- A 3+(3×4)
- B 3×(3×4)
- © (3×3)+(3×4)
- (3×3)+(4×4)

### Question

An expression is shown.  $3 \times 4 \times 10$ Select the **two** expressions that are equivalent to this expression.  $3 \times 40$  30 + 4  $12 \times 10$   $12 \times 40$ 10 + 12

## Question

Bryson has 40 books. He divides them into 5 stacks with an equal number of books in each stack.

He uses the division equation  $40 \div 5 = \square$  to find how many books are in each stack.

Enter a multiplication equation that shows the number of books in each stack.

An equation is given.

72 ÷ 9 = 🗆

Enter a related multiplication equation that shows the missing value.

### Question

What is the quotient of  $48 \div 6$ ? Enter the number in the box.

### Question

The art teacher has 74 brushes. One art class uses 26 brushes. The rest of the brushes are put into 8 boxes. Each box has the same number of brushes.

How many brushes are in each box?

A 6

© 40

6 48

### Question

A group of 9 people is ordering pizza. Each person will get 2 slices of pizza. Each pizza has 6 slices.

How many pizzas should the group order? Enter the number in the box.

A pattern is given.

22, 19, 16, \_\_\_, 10, 7

What is the missing number in the pattern? Enter the number in the box.

### Question

Jennifer has 4 packages of pens. Each package contains 20 pens.

How many pens does Jennifer have in all? Enter the number in the box.

### Question

The number of classes and the number of students in each class at Mountain Elementary School are shown.

Complete the table to show the total number of students in each grade.

	Number of Classes	Number of Students in Each Class	Total Number of Students in Each Grade
Kindergarten	6	30	
First Grade	2	20	
Second Grade	4	20	
Third Grade	3	30	

# Question

There are 9 students in the art club. The teacher gave each student 10 feathers.

What is the total number of feathers that the teacher gave to the students? Enter the number in the box.

# Grade 3 Reporting Category:

# **Numbers and Operations**

**CRITICAL AREA OF FOCUS #5** Solving multi-step problems.

What is 761 rounded to the nearest hundred? Enter the number in the box.

### Question

This question has two parts. First, answer part A. Then, answer part B.

- A. Round 436 to the nearest 10. Enter the number in the first box.
- B. Round 436 to the nearest 100. Enter the number in the second box.



### Question \_\_\_\_\_

Ryan wrote a number on his paper.

- His number rounds to 350 when rounded to the nearest ten.
- His number rounds to 300 when rounded to the nearest hundred.

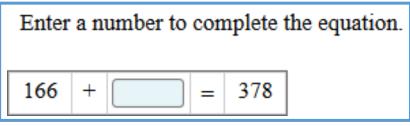
Enter a number that Ryan could have written.

An equation is shown.

 $263 - 115 - 36 = \square$ 

What is the missing number? Enter the number in the box.

### Question



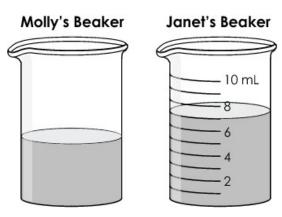
### Question

Mr. Burrows starts mowing the lawn at 12:05 p.m. He also does the following:

- He stops to eat lunch 45 minutes after he starts mowing the lawn.
- · After lunch, he mows the lawn for 35 more minutes.
- He finishes mowing the lawn at 1:45 p.m.
- A. What time does Mr. Burrows begin eating lunch?
- B. How long, in minutes, did it take him to eat lunch?

Α.	:		p.m.
в.		minutes	

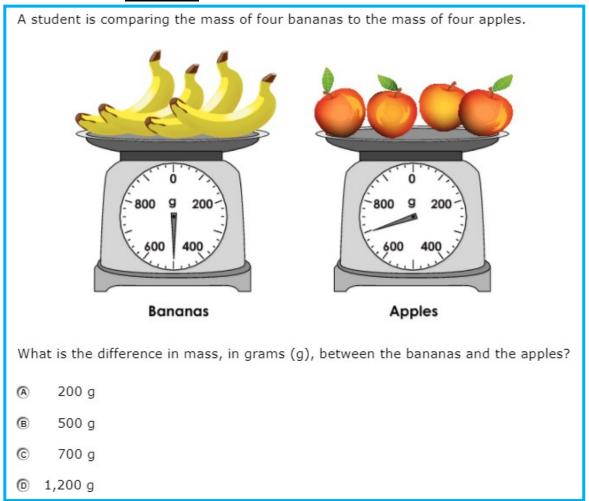
Molly and Janet have beakers of the same size. The beakers are filled with different amounts of water as shown.

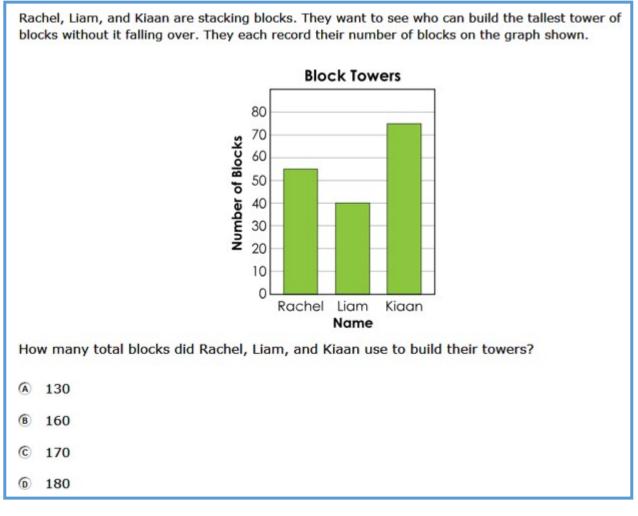


Janet's beaker contains 7 milliliters (mL) of water.

About how many milliliters of water does Molly's beaker contain?

- A 2 mL
- B 5 mL
- © 7 mL
- 9 mL





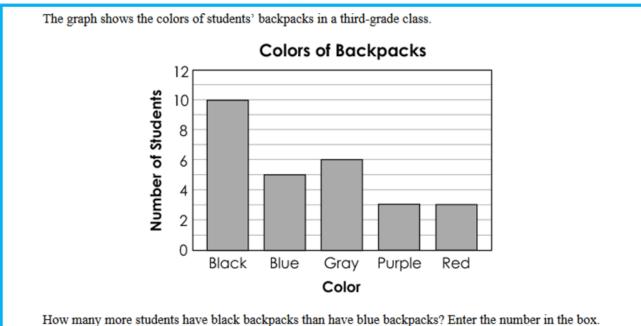
Yang has an apple tree. He records how many apples he picks each day in the table shown.

### Number of Apples Picked

Monday	
Tuesday	HH I
Wednesday	
Thursday	HH III
Friday	####

Create a picture graph to represent the data.

- A. Select a number for the scale of the picture graph.
- B. Select apples in each row to create the picture graph.
- There may be more than one correct answer.



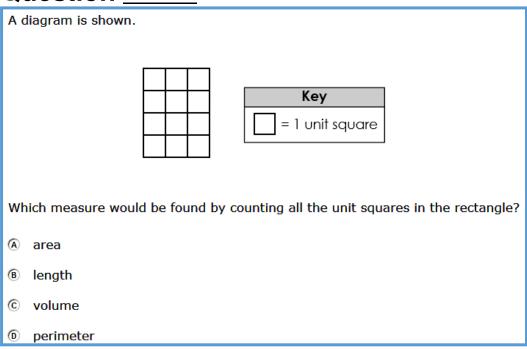
		2	3		4				
	Numbe	rof	Арр	les	Picl	ed			
Monday	ФФ	Ð	Φ	Û	Ð	Ð	Ð	00	D
Tuesday	ΦΦ	Ð	Ð	$\mathbb{O}$	$\bigcirc$	Ð	Ð	00	D
Wednesday	ΦΦ	Ð	$\mathbb{O}$	$\bigcirc$	$\bigcirc$	$\mathbb{O}$	Ð	$\mathbb{D}$	D
Thursday	ΦΦ	$\bigcirc$	$\mathbb{O}$	$\mathbb{O}$	$\bigcirc$	$\mathbb{O}$	Ð	00	D
Friday	00	0	Φ	$\oplus$	$\bigcirc$	Ð	Ð	00	D

# Grade 3 Reporting Category:

# Geometry

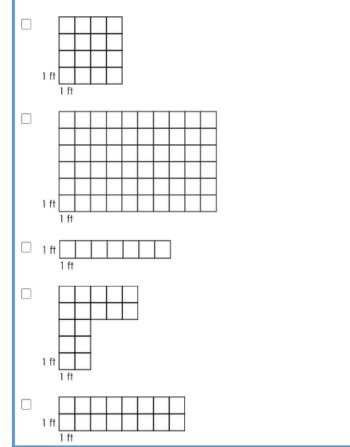
**CRITICAL AREA OF FOCUS #3** Developing understanding of the structure of rectangular arrays and of area.

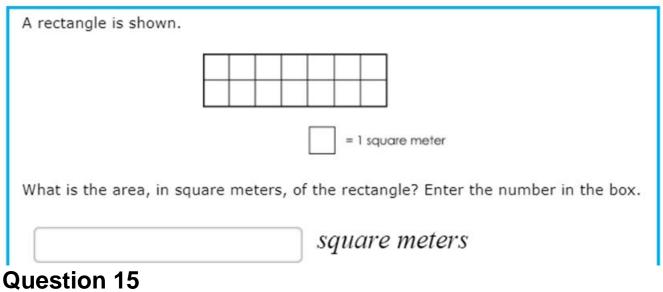
**CRITICAL AREA OF FOCUS #4** Describing and analyzing two-dimensional shapes.



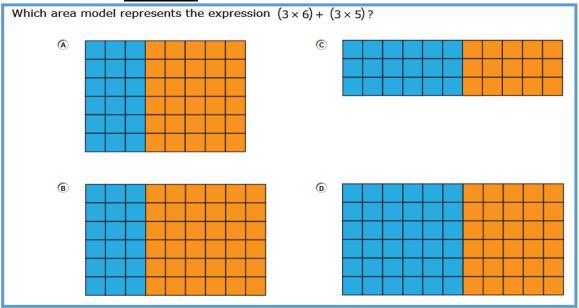
### Question

Select the three shapes that each have an area of 16 square feet.





# Select the two rectangles that have an area of 12 square units.

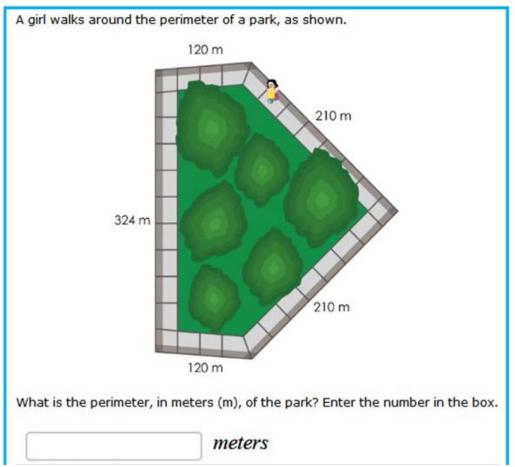


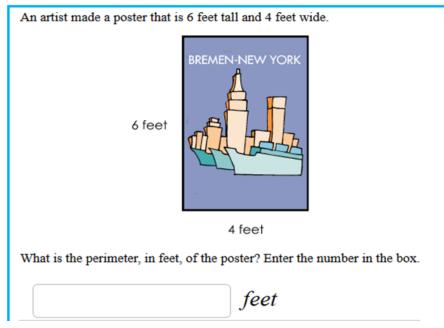
### Question

A rectangle has a width of 6 feet and an area of 48 square feet.

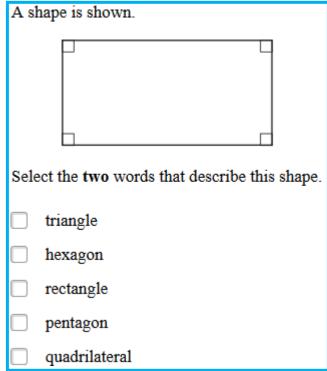
What is the length, in feet, of the rectangle? Enter the number in the box.

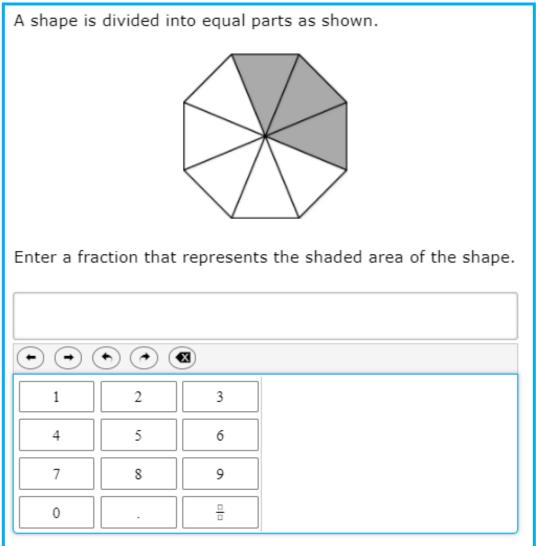
feet





Carl creates a rectangle with an area of 12 square units and a Delete X Add Point + (Connect Line ) perimeter of 14 units. A. A. In the top box, use the Connect Line tool to create a rectangle with the same area as Carl's 1 unit rectangle, but Β. a different perimeter. B. In the bottom box, use the Connect Line tool to create a rectangle with 1 unit · the same perimeter as -Carl's rectangle, but · a different area.



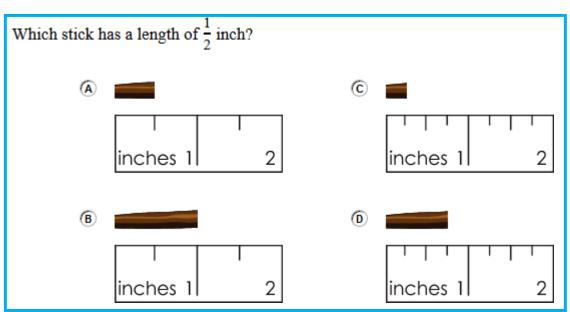


# Grade 3 Reporting Category:

# **Fractions**

**CRITICAL AREA OF FOCUS #2** Developing understanding of fractions, especially unit fractions (fractions with numerator 1).

## Question \_\_\_\_\_

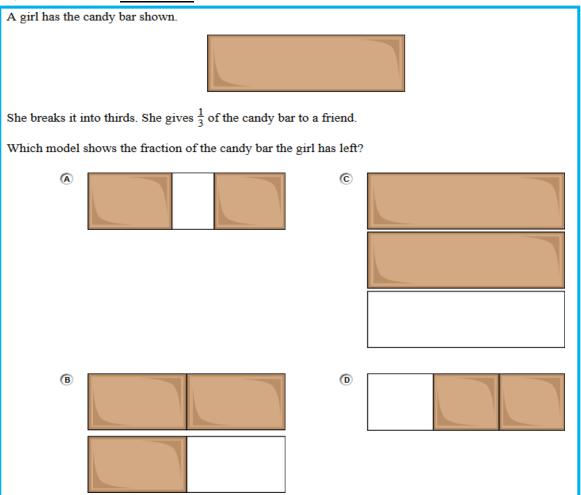


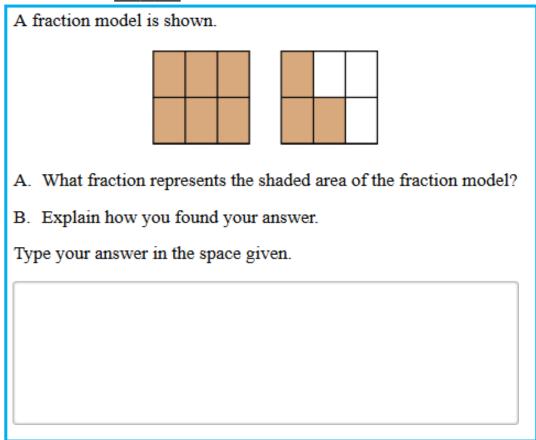
### Question

Complete the sentence to create a true statement about the fraction $\frac{1}{3}$ .
The fraction $\frac{1}{3}$ describes $\checkmark$ when a whole is divided into $\checkmark$

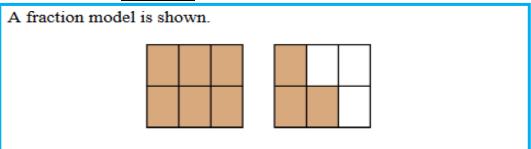
### Drop down choices:

The fraction $\frac{1}{3}$ describes		-	when a whole is divided into		-
	1 part			1 equal part.	
	2 parts			2 equal parts.	
	3 parts			3 equal parts.	



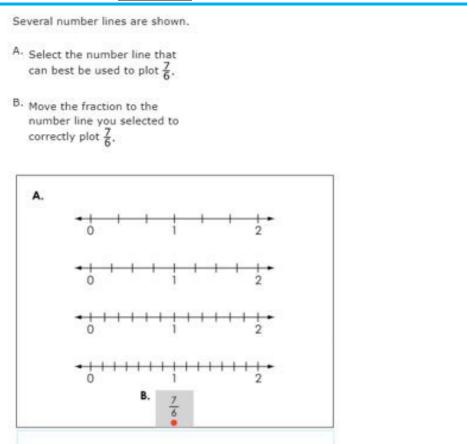


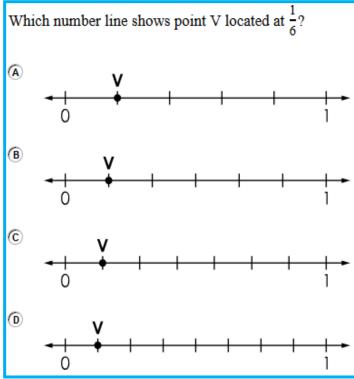
### Question



- A. What fraction represents the shaded area of the fraction model?
- B. Explain how you found your answer.

Type your answer in the space given.





This item has three parts.
Part A. Create models for two different fractions that are greater than 1.
<b>Key</b> = 1
Fraction 1
Fraction 2
Part B. Select the words that correctly complete each sentence.     • Fraction 1 has parts of the wholes shaded than Fraction 2.     • The parts in Fraction 1 are the parts in Fraction 2.
Fraction 1 is Fraction 2.
Part C. Which statement correctly compares the two fractions?
Fraction 1 > Fraction 2
Fraction 1 = Fraction 2
© Fraction 1 < Fraction 2

### Drop down choices:

