Which decimal is equivalent to $rac{6}{11}$ ?
Select your answer.
○ A. 0.183
$\bigcirc$ B. 0.1 $\overline{83}$
○ C. 0.54
◎ D. 0.54

1. What do you know about the problem?

2. What questions do you have?

### 8<sup>th</sup> Grade PARCC EOY Sample Assessment Item #5: Standard 8.EE.3

The body of a 154-pound person contains approximately  $2 \times 10^{-1}$  milligrams of gold and  $6 \times 10^{1}$  milligrams of aluminum. Based on this information, the number of milligrams of aluminum in the body is how many times the number of milligrams of gold in the body?

Enter your answer in the box.

1. What do you know about the problem?

2. What questions do you have?

Which equation has **both** 4 and -4 as possible values of y? • A.  $y^2 = 8$ • B.  $y^3 = 8$ • C.  $y^2 = 16$ • D.  $y^3 = 64$ 

1. What do you know about the problem?

2. What questions do you have?

### 8<sup>th</sup> Grade PARCC EOY Sample Assessment Item #10: Standard 8.F.1-1

When the input to a function is -2, the output is 4.
Which statement about this function **must** be true?
A. An input of -2 has infinitely many possible outputs.
B. An input of -2 has exactly one possible output.

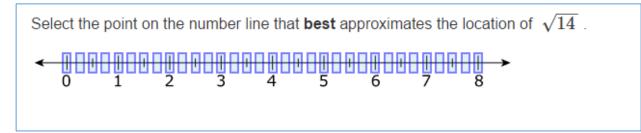
- C. An output of 4 has infinitely many inputs.
- D. An output of 4 has exactly one input.
- 1. What do you know about the problem?

2. What questions do you have?

Which expressions are equivalent to $rac{3^{-8}}{3^{-4}}?$
Select <b>all</b> that apply.
□ A. 3 <sup>-12</sup>
■ B. 3 <sup>-4</sup>
C. 3 <sup>2</sup>
$\square  D.  \frac{1}{3^2}$
$\square E. \frac{1}{3^4}$
$\square$ F. $\frac{1}{3^{12}}$

1. What do you know about the problem?

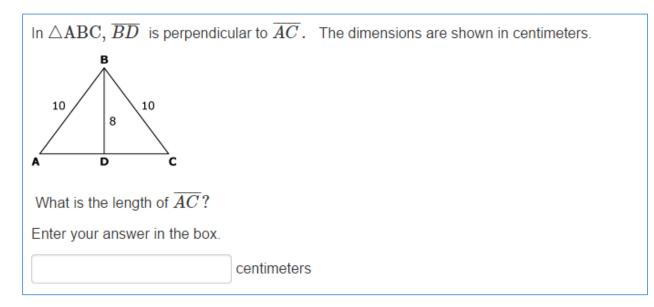
2. What questions do you have?



1. What do you know about the problem?

2. What questions do you have?

### 8<sup>th</sup> Grade PARCC EOY Sample Assessment Item #1 (Part 2: Calculator): Standard 8.G.7-1



1. What do you know about the problem?

2. What questions do you have?

# 8<sup>th</sup> Grade PARCC EOY Sample Assessment Item #2 (Part 2: Calculator): Standard 8.EE.C.Int.1

Filipo is building a rectangular sandbox for his younger brother. The length of the sandbox is 1 foot longer than twice the width of the sandbox. The perimeter of the sandbox is 29 feet.					
Part A Which equation could be used to determine <i>w</i> , the width, in feet, of the sandbox? • A. $w + w + 2 = 29$					
• B. $w + 2w + 1 = 29$					
• C. $2w + 2(w + 2) = 29$					
• D. $2w + 2(2w + 1) = 29$					
Part B					
What is the width, in feet, of the sandbox?					
Enter your answer in the space provided.					
<b>C</b> $\times$ + - $\times$ $\div$ $\boxminus$ $y^x$ $$ = $\approx$					
Numbers					
Arithmetic and Units					
Exponents and Roots					
Relations					
Geometry     Groups					
• Groups					

- 1. What do you know about the problem?
- 2. What questions do you have?
- 3. Explain your reasoning or thinking in solving the problem.

### 8<sup>th</sup> Grade PARCC EOY Sample Assessment Item #3 (Part 2: Calculator): Standard 8.SP.4

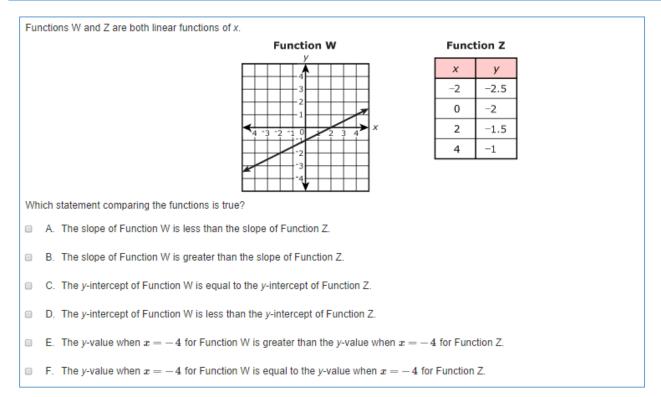
The table shows the results of a random survey of students in grade 7 and grade 8. Every student surveyed gave a response. Each student was asked if he or she exercised less than 5 hours last week or 5 or more hours last week.

	Less than 5 hours	5 or more hours
Grade 7 Students	49	63
Grade 8 Students	58	51

Based on the results of the survey, which statements are true? Select each correct statement.

- A. More grade 8 students were surveyed than grade 7 students.
- B. A total of 221 students were surveyed.
- C. Less than 50% of the grade 8 students surveyed exercised 5 or more hours last week.
- D. More than 50% of the students surveyed exercised less than 5 hours last week.
- E. A total of 107 grade 7 students were surveyed.
- 1. What do you know about the problem?

2. What questions do you have?



### 8<sup>th</sup> Grade PARCC EOY Sample Assessment Item #5 (Part 2: Calculator): Standard 8.F.2

1. What do you know about the problem?

2. What questions do you have?

## 8<sup>th</sup> Grade PARCC EOY Sample Assessment Item #8 (Part 2: Calculator): Standard 8.EE.5-2

Two different proportional relationship	os are represen	ted by tl	he equ	lation a
Prop	ortion A	F	Propo	rtion B
<i>y</i> = 9 <i>x</i>			x	У
		Г	0	0
			3	34.5
			5	57.5
		Γ	8	92
Use the drop-down menus to complet relationships. The rate of change in Proportion A is	Choose	, compa	ring th Choos	
in Proportion B.	Choose		Choos	e
	1.5		more	
	2.5		less	
	25.5			
	43.5			

1. What do you know about the problem?

2. What questions do you have?

### 8<sup>th</sup> Grade PARCC EOY Sample Assessment Item #10 (Part 2: Calculator): Standard 8.F.2

Functions A, B, and C are linear functions.

Some values of Function A are shown in the table.

### Function A

x	у
3	3
5	7
6	9

The graph of Function B has a y- intercept of (0,3) and an x- intercept of (-5,0).

Function C is defined by the equation y = (3x + 1).

Order the linear functions based on rate of change, from least to greatest.

Least Rate of Change	Greatest Rate of Change			
Function A	Function B	Function C		

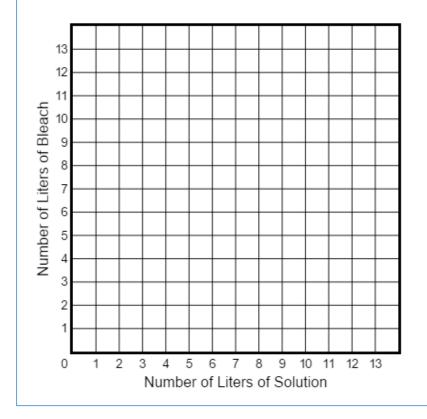
1. What do you know about the problem?

2. What questions do you have?

A solution is 20% bleach.

Create a graph that represents all possible combinations of the number of liters of bleach, contained in number of liters of solution.

To graph a line, select two points on the coordinate plane. A line will be drawn through the points.



1. What do you know about the problem?

2. What questions do you have?

# Liz saw the number shown on her calculator screen.

8<sup>th</sup> Grade PARCC EOY Sample Assessment Item #13 (Part 2: Calculator): Standard 8.EE.4.2

1. What do you know about the problem?

2. What questions do you have?