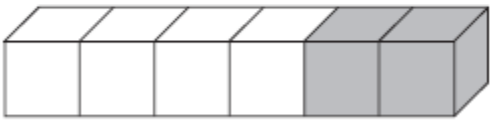
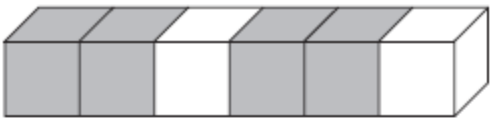
Name:_____

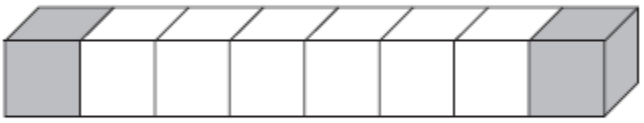
1. Joel is putting gray and white cubes together into a group.

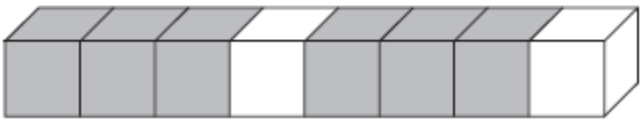
In his group, $\frac{2}{6}$ of the cubes are **white**.

Which could be the group Joel put together?

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

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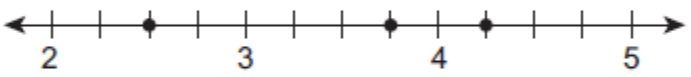
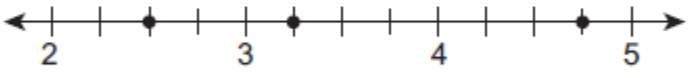
2. Roger has a box that is $3\frac{3}{4}$ inches wide.

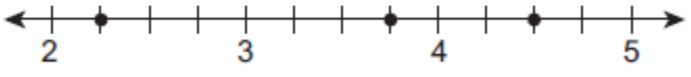
The length of the box is $4\frac{1}{4}$ inches.

The height of the box is $2\frac{2}{4}$ inches.

Which number line shows each measurement of Roger's box?

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

3. Which comparison is true?

Ⓐ $\frac{2}{8} > \frac{5}{8}$

Ⓑ $\frac{2}{8} > \frac{7}{8}$

Ⓒ $\frac{5}{8} < \frac{2}{8}$

Ⓓ $\frac{5}{8} < \frac{7}{8}$

---

4. Katie earns $5 for each lawn she mows.

Last week she earned $25 mowing lawns.

This week she earned $15 mowing lawns.

Which statement correctly explains how many more lawns Katie mowed last week than this week?

Ⓐ Katie mowed 2 more lawns because 25 ÷ 5 is 2 more than 15 ÷ 5.

Ⓑ Katie mowed 10 more lawns because 25 – 5 is 10 more than 15 – 5.

Ⓒ Katie mowed 10 more lawns because 25 + 5 is 10 more than 15 + 5.

Ⓓ Katie mowed 50 more lawns because 25 × 5 is 50 more than 15 × 5.

---

5. Amar puts all of his crayons into boxes.

There are exactly 8 crayons in each box.

Which expression shows how Amar could have found the number of crayons to put into each box?

Ⓐ 28 ÷ 4

Ⓑ 32 ÷ 4

Ⓒ 36 ÷ 4

Ⓓ 40 ÷ 4

---

6. A company orders 40 cases of paper for 8 stores.

A worker wrote the equation shown below.

$$40 \div 8 = \square$$

Which statement could explain what the missing number (□) in the equation represents?

Ⓐ The company ordered 5 extra cases of paper.

Ⓑ The company ordered 32 extra cases of paper.

Ⓒ The company will send 5 cases of paper to each of its 8 stores.

Ⓓ The company will send 6 cases of paper to each of its 8 stores.

7. There are 8 rows of computers in a classroom.

There are 3 computers in each row.

At each computer, 2 students are working together.

The expression $8 \times 3 \times 2$ represents how many students are in the classroom.

Which expression also represents how many students there are in the classroom?

Ⓐ 3×10
Ⓑ 3×16
Ⓒ 11×2
Ⓓ 21×2

---

8. Mr. Randall is starting a tree farm.

He has planted 72 trees in 9 equal rows.

Mr. Randall used an equation to find the number of trees (☐) he planted in each row.

The equation he used was $9 \times ☐ = 72$.

Which equation shows another way to find the number of trees (☐) Mr. Randall planted in each row?

Ⓐ $72 + 9 = ☐$
Ⓑ $72 \div 9 = ☐$
Ⓒ $72 \times 9 = ☐$
Ⓓ $72 - 9 = ☐$

---

9. Nate bought two 50-pound bags of birdseed.

He used 30 pounds in one week.

Which equation shows how many pounds of birdseed (☐) Nate still has?

Ⓐ $2 + 50 - 30 = ☐$
Ⓑ $50 + 50 - 30 = ☐$
Ⓒ $2 \times 50 + 30 = ☐$
Ⓓ $50 + 50 + 30 = ☐$

10. Marshawn wants to buy a bike that costs $180.

He has saved $60 from babysitting.

He has saved $130 from doing yard work.

Which number sentence correctly shows whether Marshawn has saved enough money to buy the bike?

Ⓐ $130 < 180 + 60$

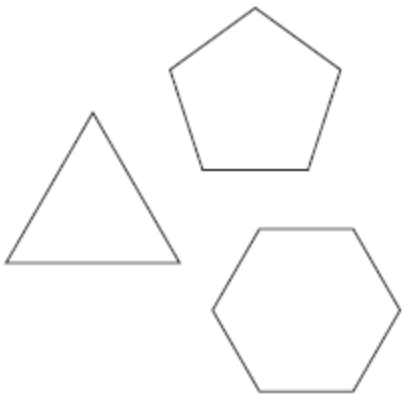
Ⓑ $180 > 130 - 60$

Ⓒ $60 + 130 > 180$

Ⓓ $180 - 130 < 60$

---

11. The shapes below are all in a group because their sides have equal lengths.



A quadrilateral is added to the group.

Which term **best** describes the quadrilateral that is added to the group?

Ⓐ octagon

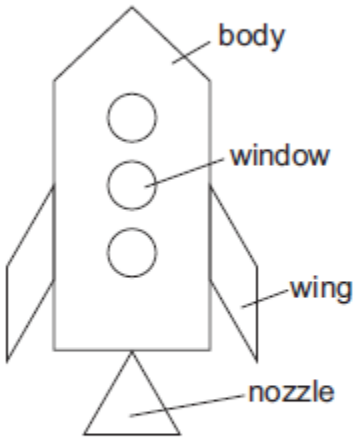
Ⓑ pentagon

Ⓒ rhombus

Ⓓ triangle

12. Hernando used different shapes to create the diagram of his rocket as shown below.

Hernando's Rocket

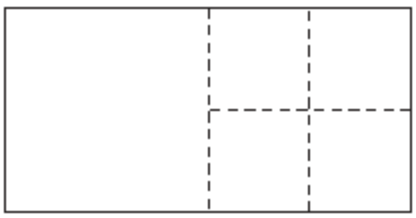


Which part of Hernando's diagram is a quadrilateral?

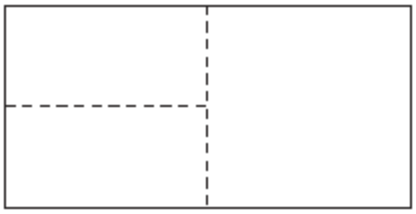
Ⓐ body
Ⓑ window
Ⓒ wing
Ⓓ nozzle

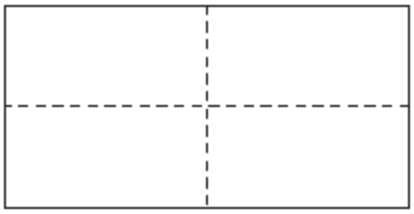
13. When Mr. Phan finished dividing a candy bar, all parts were squares with equal areas.

Which could be Mr. Phan's candy bar after he finished dividing it?

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

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14. Kira started riding her bike at the time shown on the clock.

She stopped riding her bike at 3:27.

How long did Kira ride her bike?

Ⓐ 17 minutes

Ⓑ 25 minutes

Ⓒ 35 minutes

Ⓓ 37 minutes

15. Gwen bought a milkshake for $3.52.

She paid for the milkshake with $5.00.

Which amount of money shows the correct change Gwen should receive?

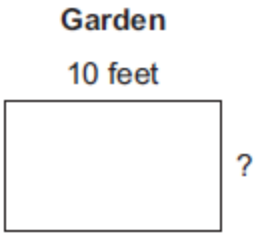
Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

16. A picture of a garden is shown below.



The perimeter of the garden is 32 feet.

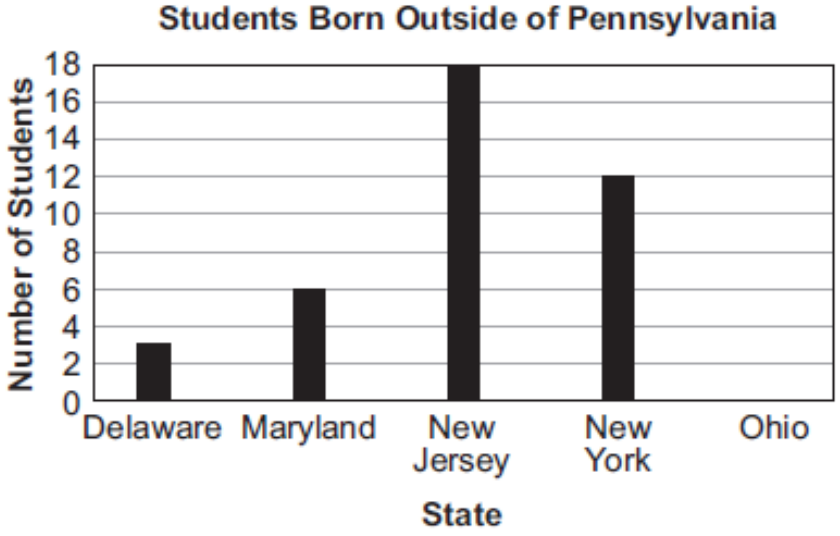
What is the missing length of the side of the garden?

Ⓐ 6 feet
Ⓑ 10 feet
Ⓒ 12 feet
Ⓓ 22 feet

OPEN-ENDED QUESTION

17. The bar graph below shows the number of students at Abigail's school who were born outside of Pennsylvania.

The information for Ohio is not included in the bar graph.



The number of students who were born in New Jersey is the same as the number of students who were born in two other states combined.

A. What are the two other states?

PUT your answers in the **BLANKS BELOW**.

State 1: _____

State 2: _____

Go to the next page to finish question 17.

17. ***Continued.*** Please refer to the previous page for task explanation.

There are more students at Abigail's school who were born in Maryland than were born in Ohio.

Also, there are more students who were born in Ohio than were born in Delaware.

B. List all the possible numbers of students at Abigail's school who could have been born in Ohio.

PUT your answer in the **BLANK BELOW**.

EXPLAIN how you found your answer.

_____

_____

Answer: _____

Abigail says that the number of students in her school who were actually born in Ohio must be an even number since only even numbers appear on the left side of the graph.

C. **EXPLAIN** why Abigail's reasoning is **not** correct.

_____

_____

_____