EOY Mathematics PARCC Practice Test | 6th

Joanne buys a rug with an area of $\frac{35}{4}$ square meters. The length of the rug is $\frac{7}{2}$ meters.

What is the width, in meters, of the rug?

Enter your answer in the space provided. Enter **only** your fraction.

- ▸ Numbers
- ▸ Arithmetic and Units
- ▸ Exponents and Roots
- ▸ Relations
- ▸ Geometry
- ▸ Groups

The median number of points scored by 9 players in a basketball game is 12. The range of the number of points scored by the same basketball players in the same game is 7.

Drag and drop the correct word or phrase to each row of the table to indicate whether the statement is true, false, or does not contain enough information.

| True | False | Not Enough Information |

Statements	
At least one player scored 12 points.	
The greatest number of points scored could be 19 points.	
The mean number of points is greater than 12 points.	
If the greatest number of points scored is 16, then the least number of points scored is 4.	

Enter your answer in the box.

$33.8 \div 32.5 = $ [   ]
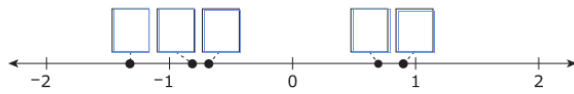
Select each expression that is equivalent to $3(n+6)$.

Select **all** that apply.
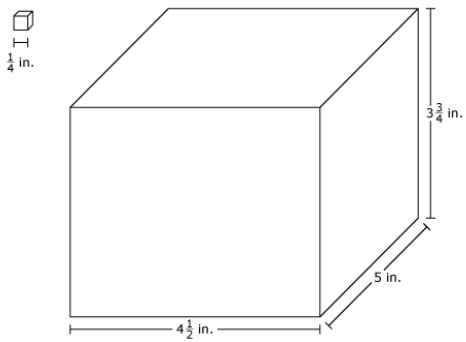
☐ A. $3n+6$

☐ B. $3n+18$

☐ C. $2n+2+n+4$

☐ D. $4(n+6)-(n+6)$

☐ E. $4(n+6)-(n-6)$

Drag and drop the given rational numbers into the correct order on the number line from least to greatest.

$$-\frac{2}{3} \quad \frac{7}{8} \quad -\frac{4}{5} \quad \frac{7}{10} \quad -\frac{4}{3}$$

Small cubes with edge lengths of $\frac{1}{4}$ inch will be packed into the right rectangular prism shown.

How many small cubes are needed to completely fill the right rectangular prism?

Enter your answer in the box.

[   ] cubes

$\frac{1}{4}$ in.

$3\frac{3}{4}$ in.

5 in.

$4\frac{1}{2}$ in.

Enter your answer in the box.

$48.3 \times 7.39 =$ [   ]

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During a sale, all pillows are $\frac{1}{4}$ off the regular price.

Use the equation editor to write an expression that represents the amount of money saved on a pillow that had a regular price of d dollars.

Enter your answer in the space provided. Enter **only** your expression.

[Equation editor toolbar: refresh, undo, redo, backspace, +, −, ×, ÷, fraction, matrix, y^x, √, =, ≈]

- ▸ Numbers
- ▸ Arithmetic and Units
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Carol makes $9\frac{1}{3}$ cups of snack mix. She puts all the snack mix into plastic bags. She puts $\frac{2}{3}$ cup of the snack mix in each bag.

How many plastic bags does Carol need?
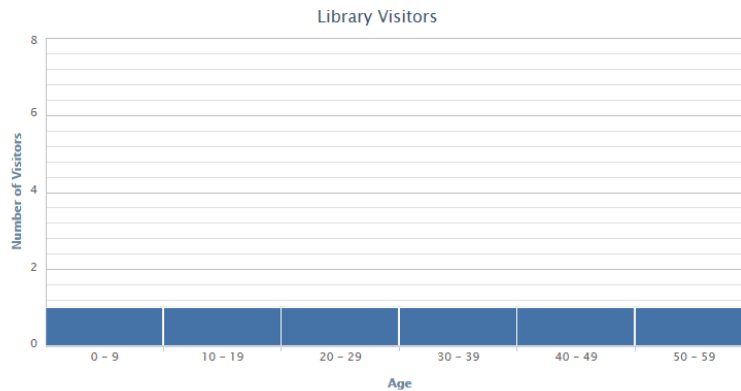
Enter your answer in the box.

[_____] plastic bags

This table shows the ages of 20 visitors at a library.

15	27	53	9	48
3	56	12	10	15
18	15	2	31	20
21	33	6	52	56

Create a histogram that represents the data. Adjust the size of the slider by dragging the top of the slider to the appropriate height.

Library Visitors

Point Q is plotted on the coordinate plane.
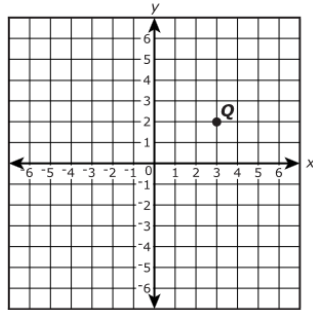
Point Q is reflected across the x-axis.

What are the coordinates of the reflection of point Q?

Enter your answer in the space provided. Enter **only** your answer.

(☐ , ☐)

- Numbers
- Arithmetic and Units
- Exponents and Roots
- Relations
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Which question is a statistical question?

- ○ A. How tall is the oak tree?

- ○ B. How much did the tree grow in one year?

- ○ C. What are the heights of the oak trees in the schoolyard?

- ○ D. What is the difference in height between the oak tree and the pine tree?

What is the greatest common factor of 16 and 48?

Enter your answer in the box.

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An expression is shown. $7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7$

What is the expression written in exponential form?

Enter your expression in the space provided. Enter **only** your expression.

- ▸ Numbers
- ▸ Arithmetic and Units
- ▸ Exponents and Roots
- ▸ Relations
- ▸ Geometry
- ▸ Groups

This table shows the number of books, by type, checked out from the school library on Monday.

Book Checkout

Book Type	Number of Books
Mystery	24
Nonfiction	18
Adventure	12
Humor	16

Use the drop-down menus to complete this statement.

For every [Choose... ▾] mystery books checked out,

[Choose... ▾] nonfiction books were checked out.

Thomas buys a case of bottled water. A case contains 36 bottles of water and costs $4.69. Thomas will sell each bottle of water for $0.75 at a school event.

How much profit will Thomas earn if he sells all the bottles of water?

Enter your answer in the box.

$ [   ]

Enter your answer in the box.

$34{,}992 \div 81 =$ [   ]

What is the sum of 74.835 and 2.67 ?

Enter your answer in the box.

[   ]

Cirrus clouds form more than $6{,}000$ meters above Earth. Write an inequality to represent h , the height, in meters, of cirrus clouds.

Enter your answer in the box.

| ↻ ↺ C ⌫ | + − × ÷ 🔢 🔢 y^x √ = ≈ |

- ▸ Numbers
- ▸ Arithmetic and Units
- ▸ Exponents and Roots
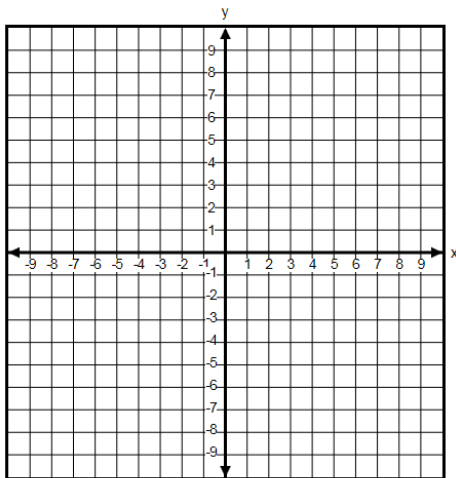- ▸ Relations
- ▸ Geometry
- ▸ Groups

City planners are creating a neighborhood map on a coordinate grid. The table shows the locations of the neighborhood library and school on a coordinate grid.

Neighborhood Planning

Building	Location
Library	(−4, −6)
School	(5, −6)

In this coordinate grid, the distance between each gridline represents 1 mile. What is the distance between the library and the school on the grid?

You can use the coordinate grid to help you find the answer by plotting the two points. Be sure to place your final answer in the box.

Enter your answer in the box.

[   ] miles