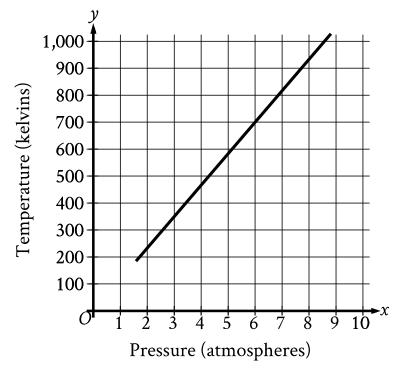
ID: c729c1d7

A number \boldsymbol{x} is at most $\boldsymbol{2}$ less than $\boldsymbol{3}$ times the value of \boldsymbol{y} . If the value of \boldsymbol{y} is $-\boldsymbol{4}$, what is the greatest possible value of \boldsymbol{x} ?

$$3y-2 \le \times$$
 $\times \le 3y-2$
 $\times \le 3(-4)-5$
 $3(-4)-2 \le \times$
 $\times \le -14$
 $\times \ge -14$
 $\times \ge -14$
 $\times \ge -14$
 $\times \ge -14$
 $\times \le 3(-4)-5$
 $\times \le 3(-4)-5$
 $\times \le -14$
 $\times \ge -14$
 $\times \ge -14$

ID: 86793098

Oxygen gas is placed inside a tank with a constant volume. The graph shows the estimated temperature y, in kelvins, of the oxygen gas when its pressure is x atmospheres.



What is the estimated temperature, in kelvins, of the oxygen gas when its pressure is 6 atmospheres?

A. **6**

B. **60**

c. **700**

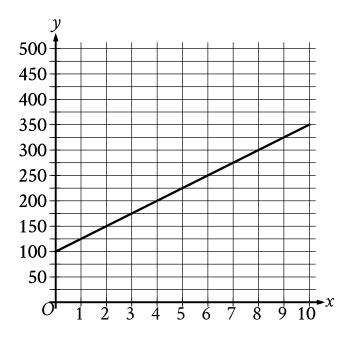
D. **760**

ID: c066203a

A principal used a total of **25** flags that were either blue or yellow for field day. The principal used **20** blue flags. How many yellow flags were used?



- В. **20**
- $\text{C.}\ \textbf{25}$
- D. **30**



The graph of the function f, where y = f(x), gives the total cost y, in dollars, for a certain video game system and \boldsymbol{x} games. What is the best interpretation of the slope of the graph in this context?

A. Each game costs \$25

B. The video game system costs **\$100**.



C. The video game system costs \$25.

D. Each game costs \$100.

I thought it asked about the line intercept.

ID: ce6f6062

$$2x+16=a(x+8)$$

In the given equation, \boldsymbol{a} is a constant. If the equation has infinitely many solutions, what is the value of \boldsymbol{a} ?



ID: c38b4d1e

$$y < -4x+4$$

Which point $(\boldsymbol{x},\boldsymbol{y})$ is a solution to the given inequality in the \boldsymbol{xy} -plane?





- B. **(0, 5**)
- C. **(2, 1**)
- D. (2, -1)

If $\frac{x+6}{3} = \frac{x+6}{13}$, the value of x+6 is between which of the following pairs of values?

A. -7 and -3

в. $\mathbf{-2}$ and $\mathbf{2}$

C. 2 and 7

D. **8** and **13**

The only way $\frac{a}{b} = \frac{a}{c}$ could ever be true was if a = 0, because 0 divided by anything is the same. Conveniently, B is the only answer that includes Q in its range, so that's likely the solution.

$$5x + 14y = 45$$
$$10x + 7y = 27$$

The solution to the given system of equations is (x, y). What is the value of xy?

$$-10 \times -26 y = -90$$

$$10 \times +7 y = 27$$

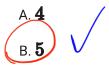
$$-21 y = -63$$

$$1 = 3$$

$$5x+14(3)=45$$
 $5x=45-42$
 $5x=3$
 $x=36$

ID: 3eb27778

Store A sells raspberries for \$5.50 per pint and blackberries for \$3.00 per pint. Store B sells raspberries for \$6.50 per pint and blackberries for \$8.00 per pint. A certain purchase of raspberries and blackberries would cost \$37.00 at Store A or \$66.00 at Store B. How many pints of blackberries are in this purchase?



$$5.5r + 3b = 37$$

C. **8**

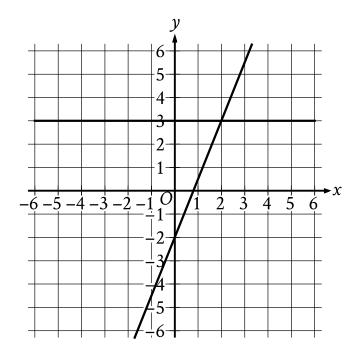
ID: 74510a38

A total of 364 paper straws of equal length were used to construct two types of polygons: triangles and rectangles. The triangles and rectangles were constructed so that no two polygons had a common side. The equation 3x + 4y = 364 represents this situation, where x is the number of triangles constructed and y is the number of rectangles constructed. What is the best interpretation of (x, y) = (24, 73) in this context?

A. If **24** triangles were constructed, then **73** rectangles were constructed

- B. If **24** triangles were constructed, then **73** paper straws were used.
- C. If **73** triangles were constructed, then **24** rectangles were constructed.
- D. If **73** triangles were constructed, then **24** paper straws were used.

ID: ea278c09



The graph of a system of linear equations is shown. What is the solution (x,y) to the system?

- A. **(0,3)**
- в. **(1,3)**



D. **(3, 3)**

ID: e96acc98

$$5(t+3) - 7(t+3) = 38$$

What value of \boldsymbol{t} is the solution to the given equation?

$$-2(t+3)=38$$

 $-2(t+3)=38$
 $-2=-19$
 $-2=-2=2$

ID: 652119ce

The functions f and g are defined as $f(x) = \frac{1}{4}x - 9$ and $g(x) = \frac{3}{4}x + 21$. If the function h is defined as h(x) = f(x) + g(x), what is the x-coordinate of the x-intercept of the graph of y = h(x) in the xy-plane?

ID: 977935fa

The y-intercept of the graph of y = -6x - 32 in the xy-plane is (0, y). What is the value of y?

-32=y

$$3(kx+13) = \frac{48}{17}x + 36$$

In the given equation, \boldsymbol{k} is a constant. The equation has no solution. What is the value of \boldsymbol{k} ?

$$| \times + | 3 = \frac{48}{51} \times + | 2$$
 $| < \times + | = \frac{48}{51} \times$

$$k = \frac{48}{51}$$

Listed answer is simplified. Not sure it they would give me the point.

num, it does heed to be simplified i-i

If f(x) = x + 7 and g(x) = 7x, what is the value of 4f(2) - g(2)?

A. **–5**

В. 1

C. 22

D. 28

4(9)+240-7(2) 36-14 =22

ID: e914e737

$$y = 70x + 8$$

Which table gives three values of ${\boldsymbol x}$ and their corresponding values of ${\boldsymbol y}$ for the given equation?

(A.) x	y	
	0	8 4	V
	2	148 🗸	
	4	288	

B.	$\hat{m{x}}$	$oldsymbol{y}$
	0	70
	2	78
	4	86

ø.	$oldsymbol{x}$	y
/	0	70
	2	140
	4	280

D.	$oldsymbol{x}$	y	
	0	8 🕊	-
	2	132	/
	4	272	

ID: d609d1ce

Line ${\pmb k}$ is defined by ${\pmb y}=-\frac{17}{3}{\pmb x}+{\pmb 5}$. Line ${\pmb j}$ is perpendicular to line ${\pmb k}$ in the ${\it xy}$ -plane. What is the slope of line ${\pmb j}$?



ID: a39e1c3b

What is the slope of the graph of $y = \frac{1}{4}(27x + 15) + 7x$ in the *xy*-plane?

$$Y = \frac{27}{4} \times + \frac{15}{4} + \frac{28}{4} \times$$

$$Y = \frac{55}{4} \times + \frac{15}{4} \times$$

$$S(ope = \frac{55}{4} \vee$$

ID: a23c1142

$$8x = 88$$

What value of \boldsymbol{x} is the solution to the given equation?



в. **80**



 $\text{C.}\, \textbf{96}$

D. **704**

ID: 57e4b0b9

A model estimates that whales from the genus *Eschrichtius* travel **72** to **77** miles in the ocean each day during their migration. Based on this model, which inequality represents the estimated total number of miles, \boldsymbol{x} , a whale from the genus *Eschrichtius* could travel in **16** days of its migration?

A.
$$72 + 16 \le x \le 77 + 16$$

B.
$$(72)(16) \le x \le (77)(16)$$

c.
$$72 \le 16 + x \le 77$$

D.
$$72 \leq 16x \leq 77$$

ID: 43e69f94

The cost of renting a backhoe for up to 10 days is \$270 for the first day and \$135 for each additional day. Which of the following equations gives the cost y, in dollars, of renting the backhoe for x days, where x is a positive integer and $x \le 10$?

A.
$$y = 270x - 135$$

B.
$$y = 270x + 135$$

C.
$$y = 135x + 270$$

D.
$$y=135x+135$$

$$270(10) + 135(x-10) = y$$

 $2700 + 135x - 1360 = y$

$$135 \times +1380 = y$$

& Road it wooh

ID: 38f53fa4

Figure A and figure B are both regular polygons. The sum of the perimeter of figure A and the perimeter of figure B is $\bf 63$ inches. The equation $\bf 3x + 6y = \bf 63$ represents this situation, where $\bf x$ is the number of sides of figure A and $\bf y$ is the number of sides of figure B. Which statement is the best interpretation of $\bf 6$ in this context?

- A. Each side of figure B has a length of **6** inches.
- B. The number of sides of figure B is **6**.
- C. Each side of figure A has a length of 6 inches.
- D. The number of sides of figure A is **6**.

ID: 80f346ea

A line passes through the points (4,6) and (15,24) in the xy-plane. What is the slope of the line?

$$M = \frac{18}{11} \sqrt{}$$