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1) Find the greatest common factor of 48 and 60.

2) Evaluate: -3 - (-2)

3) Evaluate: - 4 - 5

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4) - 5 + 10

5) Evaluate: $(-2)^3$

6) Evaluate: $\frac{3}{5} - \frac{1}{3}$

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7) Simplify: 8x - 3x + 5x

8) Simplify: -4(-2x - 5)

9) Simplify: (2x - 1) + 2(x + 6)

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10) Find the missing value: $\frac{2}{x} = \frac{6}{15}$

11) Estimate the $\sqrt{38}$ to the nearest tenth.
- ○ 5.4
- ○ 6.2
- ○ 6.8
- ○ 5.9

12) Find the product: $2 \left(\frac{2}{3}\right)$
- ○ $2\frac{2}{3}$
- ○ $\frac{4}{6}$
- ○ $\frac{4}{3}$
- ○ 3

13) Evaluate: $2 \times 4 - 6 \div 3$

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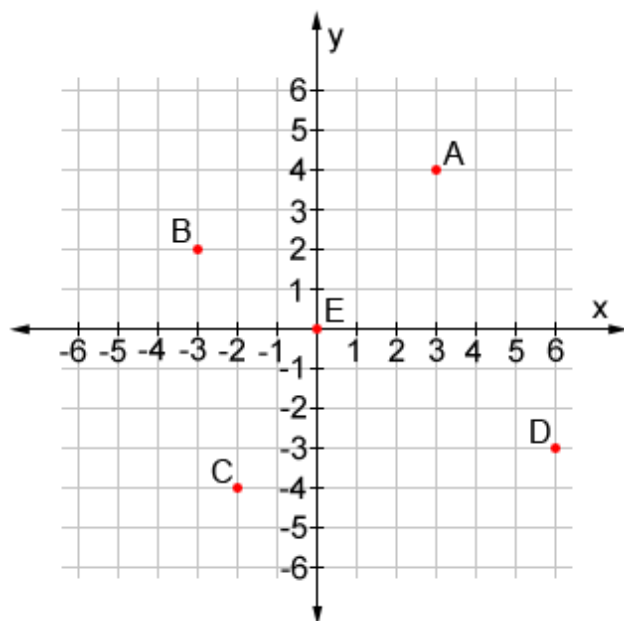This content was printed for the exclusive use of licensed students.

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14) Evaluate: $10 \div 5(3 + 4)$

15) At a baseball game, 3 adults pay $20/ticket and 4 children pay $5/ticket. What is the total cost of the tickets?
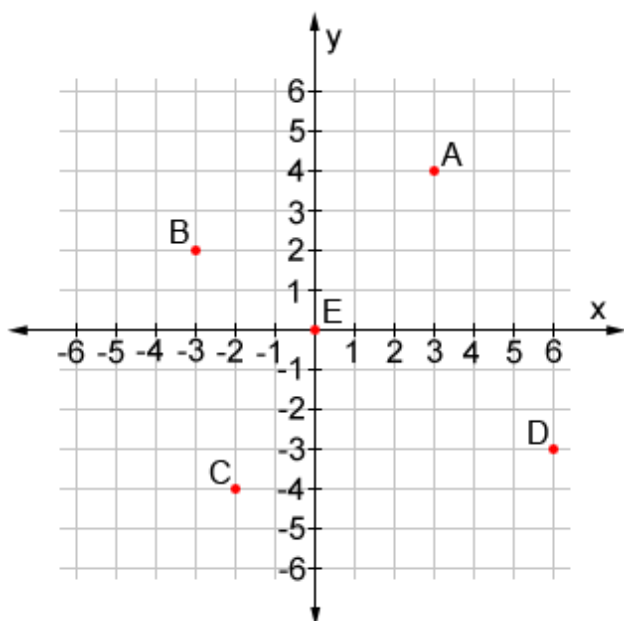
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16) What ordered pair represents point A?
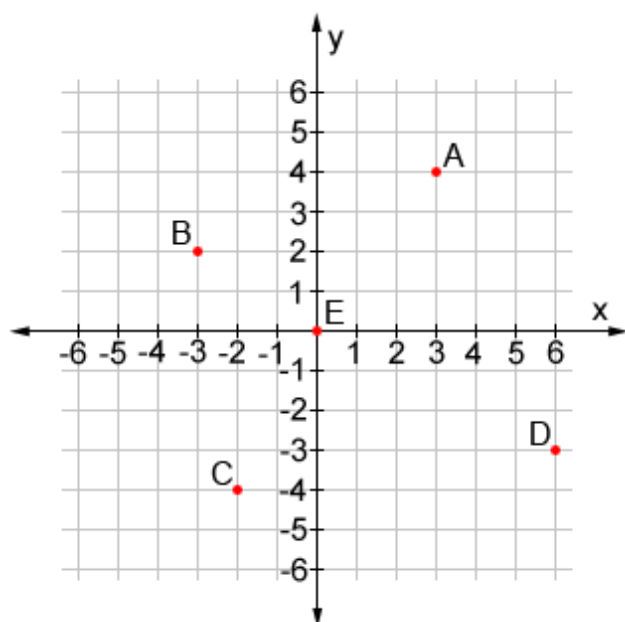

- ○ (3,4)
- ○ (4,3)
- ○ (0,0)
- ○ (-4,-3)

17) What ordered pair represents point B?

- ○ (3,-2)
- ○ (-2,3)
- ○ (-3,2)
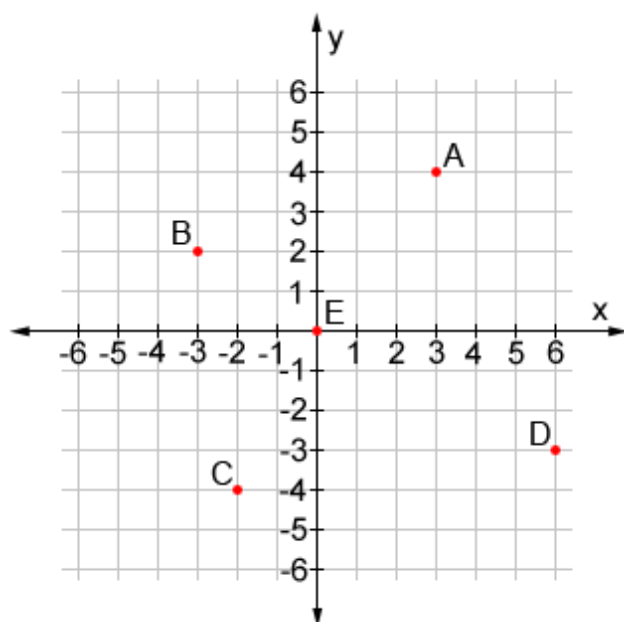- ○ (2,-3)

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18) What ordered pair represents point C?

○ (2,4)
○ (4,2)
○ (-4,-2)
○ (-2,-4)

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19) What ordered pair is represented in Point D?

- ○ (-3,6)
- ○ (6,-3)
- ○ (-6,-3)
- ○ (3,-6)

20) Evaluate: -36 ÷ 9

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21) Evaluate: $(-7) \times (-2)$

22) Evaluate: $(-12) + 4$

23) A letter is randomly selected from the word ACCOMMODATION. Which events have the same likelihood of occurring as selecting an A? Select all that apply.

☐ selecting a D
☐ selecting an O
☐ selecting a C
☐ selecting a T
☐ selecting an M

24) A clown is filling water balloons for a show. It takes the clown 15 minutes to fill 20 balloons. Which equation relates the total number of balloons y to the time x, in minutes, it takes to fill each balloon?

○ $y = \frac{3}{4}x$
○ $y = \frac{4}{3}x$
○ $y = 15x$
○ $y = 20x$

25) What is the solution to $\frac{x}{-6} > 3$?

○ $x < -2$
○ $x > -2$
○ $x < -18$
○ $x > -18$

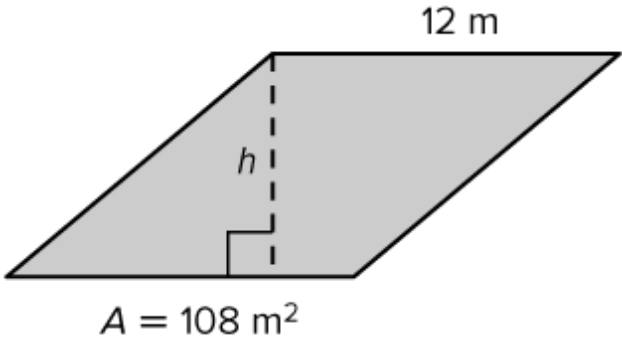**26)** The table shows the cost for different painting jobs based on the number of hours the job takes.

Number of Hours	4	6	9	12
Cost	$60	$90	$135	$180

What is the constant of proportionality?
○ 2
○ 3
○ 15
○ 20

**27)** What is the missing dimension *h*, in meters, of the parallelogram?

12 m

h

$A = 108 \text{ m}^2$

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28) What is the area of the circle? Round to the nearest tenth. Use $\pi = 3.14$.

6.3 m
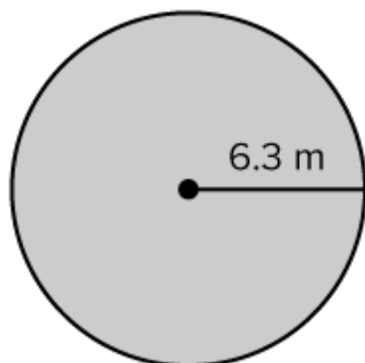
- ○ 39.7 m^2
- ○ 62.3 m^2
- ○ 124.6 m^2
- ○ 249.3 m^2

29) What is the area of the parallelogram? (Hint: Use the formula $A = bh$.)
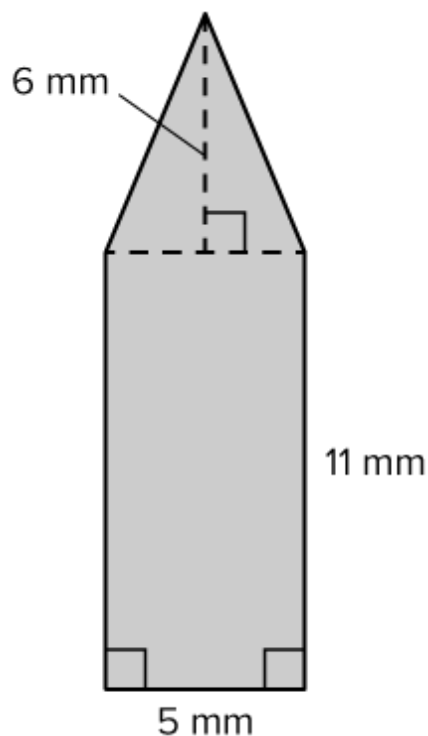

8 cm

3 cm
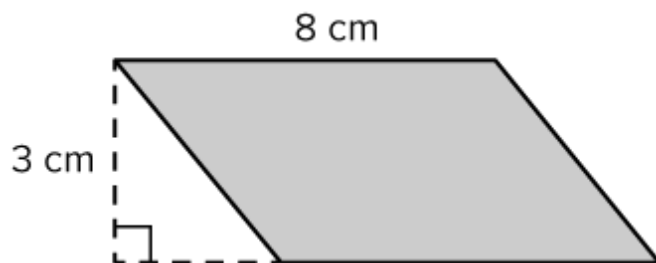
- ○ 11 cm^2
- ○ 22 cm^2
- ○ 24 cm^2
- ○ 32 cm^2

30) What is the solution to $x - 6 \geq 3$?

- ○ $x \geq -9$
- ○ $x \leq -3$
- ○ $x \leq 3$
- ○ $x \geq 9$

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31) What is the area of the composite figure in square millimeters? Round your answer to the nearest tenth if needed.
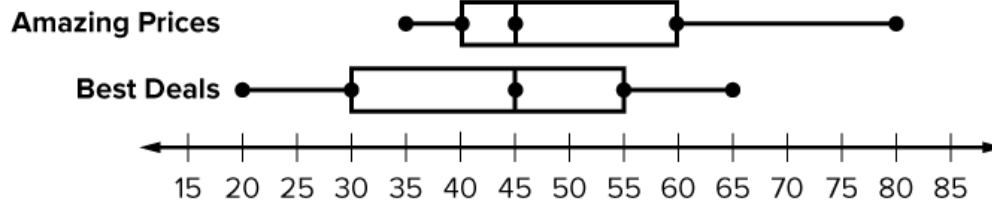
6 mm

11 mm

5 mm

_____

32) A painter is buying brushes. If 8 brushes cost $70, which equation relates the total cost y, in dollars, to the number of brushes x?

○ $y = 70x$
○ $y = 17.5x$
○ $y = 8.75x$
○ $y = 8x$

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33) The double box plot shows the number of daily customers at two electronics stores. Which statements correctly compare and make an inference about the data?

☐ The data for Amazing Prices has a greater range.
☐ The data for Best Deals has a greater interquartile range.
☐ The data for Amazing Prices has a greater median.
☐ On a randomly selected day, Amazing Prices is likely to have more customers.
☐ On a randomly selected day, Best Deals is likely to have fewer than 60 customers.

34) A quality expert can test 18 units in 32 minutes. If there are 400 units to be tested, about how long will it take to test them?

○ 117 minutes
○ 225 minutes
○ 400 minutes
○ 711 minutes

35) A school group of 46 students is on a farm tour. Each cart for the riding tour holds 8 people. Which inequality represents the number of carts x needed for the students?
○ $x \geq 8$
○ $6x \geq 46$
○ $8x \geq 38$
○ $8x \geq 46$

36) What is the solution to the inequality $\frac{n}{(-5)} > -25$?
○ $n < -125$
○ $n > -125$
○ $n < 125$
○ $n > 125$

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37) The scatter plot shows the number of years since a store opened in 2005 and average number of food items sold per day. Use the line of fit to make a conjecture about the number of food items if it has been 7 years since 2005.
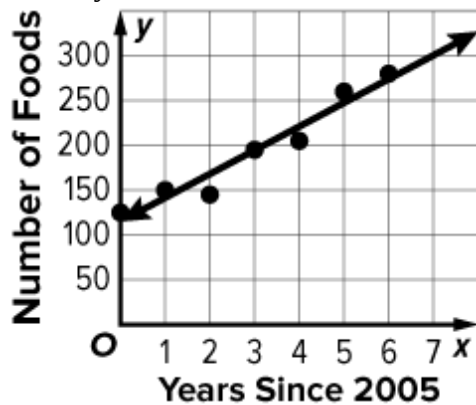
_____ Items

38) What is the solution to the inequality $5x + 12 < 7$?

39) Solve for x: 4x = 12

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40) Solve for x: x + 7 = 12

41) What is the slope of the equation y = 7x - 4?

42) What is the slope of the equation y = -x +5?

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43) What is the slope of the equation $y = \frac{2}{3}x + 10$

44) Evaluate: $\sqrt{49}$

45) Evaluate: $\sqrt{121}$