Desmos Practice Kiosk App Quiz: Go to www.desmos.com/practice
6th Grade

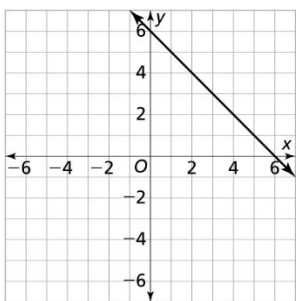|	
Drag the numbers to match each equation on the left with the value that makes the equation true. `6` `9` `15` `4.5` `8.5` $12.4 - p = 7.9$ ☐ $156 \div r = 26$ ☐ $8w = 120$ ☐ $t + 17.8 = 26.3$ ☐ $7 = 63 \div d$ ☐	Choose the number that shows the value of the expression $3 \times (6 + 1.4) - 4^2$. ○ A. 3.4 ○ B. 6.2 ○ C. 11.4 ○ D. 14.2
Which of the following equations was used to graph the line below? ○ A. $y = 6 + x$ ○ B. $y = 6 - x$ ○ C. $y = x - 6$ ○ D. $y = 6x$	Evaluate the expression $a^2 + b \div 3$ for each set of given values. $a = 4, b = 3$ ☐ $a = 2, b = 21$ ☐ $a = 3, b = 6$ ☐
Naomi's recipe for baked beans calls for $7\frac{1}{5}$ cups of kidney beans. Each can of kidney beans holds $1\frac{4}{5}$ cups. How many cans of kidney beans will Naomi use to make the recipe? Ⓐ 2 cans Ⓑ 3 cans Ⓒ 4 cans Ⓓ 5 cans	Which of the following have a value equal to $\lvert -28 \rvert$? ☐ -28 ☐ 0 ☐ 28 ☐ $-(-28)$ ☐ $\lvert 28 \rvert$

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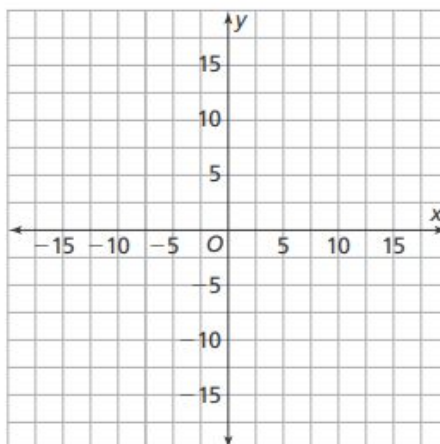7th Grade

Draw lines to match each expression on the left to its numeric equivalent on the right.

$9 + (-5)$ -12

$-8 - 4$ -4

$8 - (-4)$ 4

$-9 + 5$ 12

Which of the following products are negative? Select all that apply.

☐ $-6 \cdot 2$

☐ $-4 \cdot (-7)$

☐ $0 \cdot (-3)$

☐ $12 \cdot (-9)$

☐ $-5 \cdot (-8)$

Erik rides his motorbike $26\frac{2}{3}$ miles in $\frac{2}{3}$ hour. What is Erik's average speed in miles per hour?

The Lee family buys a new car that has a sales price of \$35,000. If the car dealer requires a minimum down payment of 15%, what is the minimum down payment the Lees must pay for their car?

A store buys an item for \$28 and sells it for \$35. What is the percent markup?

Ⓐ 20%

Ⓑ 25%

Ⓒ 32.5%

Ⓓ 63%

Which expression is equivalent to $15 - 5x$? Select all that apply.

☐ $-5(x - 3)$

☐ $3(5 - x)$

☐ $-5(3 - x)$

☐ $-3(-5 + 2x) + x$

☐ $5(3 - x)$

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8th Grade

An engineer is designing a roller coaster. The tallest peak is 310 feet high. The roller coaster travels 155 horizontal feet as it descends the hill. What is the slope of the hill? Ⓐ -2 Ⓑ -1.55 © 1.55 Ⓓ 2	Graph the equation y = -2x + 10.
The data in the table below represent a linear relationship. Fill in the missing data. <table><tr><td>**x**</td><td>0</td><td>10</td><td>20</td><td></td><td>40</td></tr><tr><td>**y**</td><td>5</td><td>12.5</td><td></td><td>27.5</td><td></td></tr></table>	Select all that apply. Which expressions are equivalent to $7^8 \cdot 7$? ☐ $7^3 \cdot 7^3$ ☐ $\dfrac{7^{18}}{7^9}$ ☐ $\left(7^3\right)^3$ ☐ $7^4 + 7^5$ ☐ $7^4 \cdot 7^5$
What is the solution to the equation $-2.5(x-4)=-3x+4$? Ⓐ $x=-28$ Ⓑ $x=-12$ © $x=12$ Ⓓ $x=28$	What is the solution to the system of equations shown below? $$y = -x + 3$$ $$y = 4x - 2$$ A (0, 3) B (1, 2) C (2, 1) D (0, -2)