

Name: _____

Date: _____

1. If $\frac{x+1}{x} = \frac{2}{3}$, what is the value of x ?

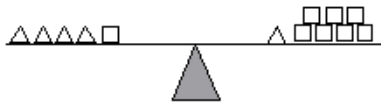
A. - 3

B. - 1

C. 1

D. 3

2. The balance below shows the equation $4x + 1 = x + 7$. What is the value of x ?

A. $\frac{8}{5}$

B. 2

C. $\frac{8}{3}$

D. 3

3. Linda is one year less than twice as old as her brother Paul. Which formula below correctly represents this situation?

A. $L = 1 - 2P$ B. $L = 2(P - 1)$ C. $L = 2P - 1$ D. $L = \frac{1}{2}(P - 1)$

4. If the equations $y = 3x + 5$ and $y = 3x - 5$ were graphed, which statement below would be true?

A. The two lines will be parallel.

B. The two lines would intersect at the origin.

C. The two lines would intersect at right angles.

D. The two lines would intersect at the point (5,-5).

5. What is the solution to

$$4(2x - 3) = 2(3x + 1)?$$

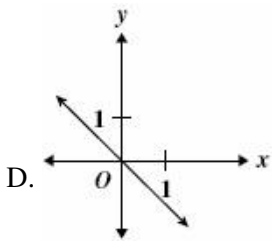
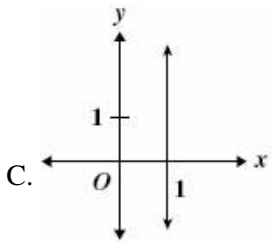
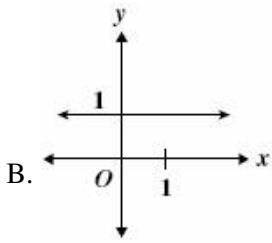
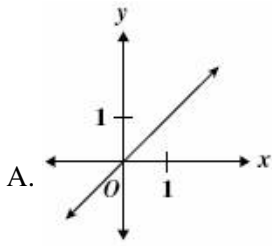
- A. -5
- B. 1
- C. 7
- D. 10

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6. Which list of ordered pairs is NOT a function?

- A. { (1, 1), (2, 3), (3, 4), (4, 5) }
 - B. { (1, 1), (2, 2), (3, 3), (4, 4) }
 - C. { (1, 1), (3, 1), (4, 2), (5, 3) }
 - D. { (1, 1), (1, 3), (2, 3), (3, 4) }
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7. Which of the following is the graph of a line with a slope of 1?

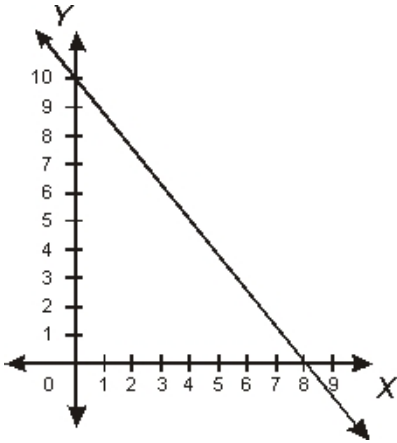


8. The slope of the line through points (1, 1) and (1, 2) is:

- A. zero
 - B. negative
 - C. positive
 - D. undefined
-

9.

What is the slope of the line on the graph below?



A. $\frac{5}{4}$

B. $\frac{4}{5}$

C. $\frac{4}{5}$

D. $\frac{5}{4}$

10.

Which algebraic expression corresponds to “half of the sum of $3x$ and 4 ”?

A. $6x$

B. $3x + 2$

C. $\frac{1}{2}(3x) + 4$

D. $\frac{1}{2}(3x + 4)$