



Name \_\_\_\_\_ Date \_\_\_\_\_

# Algebra 1 Readiness: Summer Pre-Assessment

Questions 1-3: Solve the equation.

1.

$$8x + 5 = 5x - 4$$

$x =$  \_\_\_\_\_

2.

$$3(2x + 1) = 2x + 11$$

$x =$  \_\_\_\_\_

3.

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

$x =$  \_\_\_\_\_



Please stop, put your pencil down and wait for the next directions.



# Algebra 1 Readiness: Summer Pre-Assessment

(continued)

Questions 4-6: Determine the number of solutions for the equation.

4.

$$3x + 4 = 3x + 4$$

- No Solutions     One Solution     Two Solutions     Infinitely Many

5.

$$3x - 4 = 3x - 5$$

- No Solutions     One Solution     Two Solutions     Infinitely Many

6.

$$3x + 4 = x + 1 + 3x + 2$$

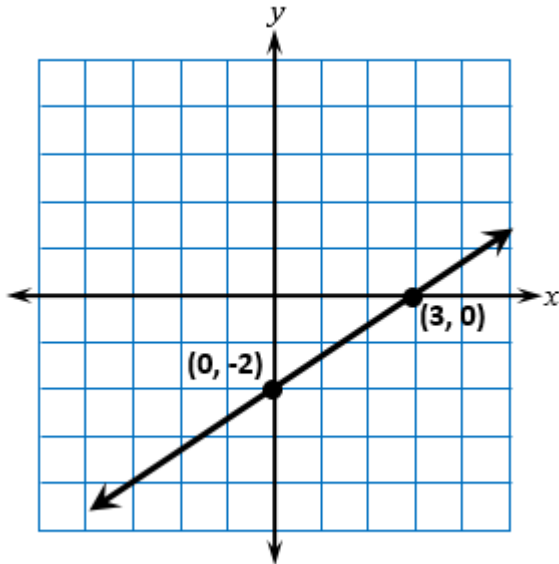
- No Solutions     One Solution     Two Solutions     Infinitely Many



Please stop, put your pencil down and wait for the next directions.

Questions 7-9: Complete the equation of the line.

7. Find the equation of the line in the graph.



$$y = \square x + \square$$

8. Find the equation of the line in the table

| $x$ | $y$ |
|-----|-----|
| -2  | 0   |
| -1  | 4   |
| 0   | 8   |
| 1   | 12  |
| 2   | 16  |

$$y = \square x + \square$$



Please continue to question 9 on the next page.



# Algebra 1 Readiness: Summer Pre-Assessment

(continued)

9. Find the equation of the line through the two points.

(2, 9) and (5, 15)

$$y = \square x + \square$$



Please stop, put your pencil down and wait for the next directions.



# Algebra 1 Readiness: Summer Pre-Assessment

(continued)

Questions 10-12: Find the equivalent expression.

10.

$$5^3 \times 5^2$$

$5^6$

$5^5$

$25^6$

$25^5$

11.

$$\frac{4^9}{4^3}$$

$1^4$

$4^3$

$4^6$

$4^{18}$

12.

$$(2^3)^5$$

$2^{-2}$

$2^2$

$2^8$

$2^{15}$



Please stop, put your pencil down and wait for the next directions.



# Algebra 1 Readiness: Summer Pre-Assessment

(continued)

Questions 13-15: Solve the equation.

13.

$$x^2 = 16$$

-4

4

$\pm 4$

8

14.

$$x^3 = -27$$

-3

3

$\pm 3$

-9

15.

$$x^2 = \frac{81}{100}$$

$-\frac{9}{10}$

$\frac{9}{10}$

$\pm \frac{9}{10}$

$\pm \frac{9}{50}$



Please stop, put your pencil down and wait for the next directions.