



Name _____ Date _____

Algebra 1 Readiness Screener - Winter

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.



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(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.

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

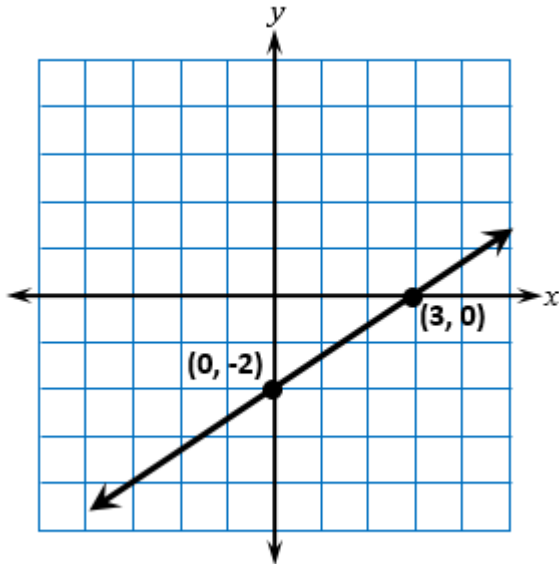
- No Solutions One Solution Two Solutions Infinitely Many



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.



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(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.



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(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.



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(continued)

Questions 13-15: Solve the equation.

13.

$$x^2 = 16$$

-4

4

± 4

8

14.

$$x^3 = -27$$

-3

3

± 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.