



Name _____ Date _____

Algebra 1 Readiness: Summer Post-Assessment

Questions 1-3: Solve the equation.

1.

$$2x + 9 = 4x - 1$$

 $x = \underline{\hspace{2cm}}$

2.

$$2(3x + 6) = 2x + 4$$

 $x = \underline{\hspace{2cm}}$

3.

$$2(x + 10) = 4(2x - 1)$$

 $x = \underline{\hspace{2cm}}$ 

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.

$$2x + 6 = -2x - 6$$

- No Solutions One Solution Two Solutions Infinitely Many

5.

$$2x - 6 = 2x - 6$$

- No Solutions One Solution Two Solutions Infinitely Many

6.

$$2x + 6 = x + 1 + x + 6$$

- No Solutions One Solution Two Solutions Infinitely Many

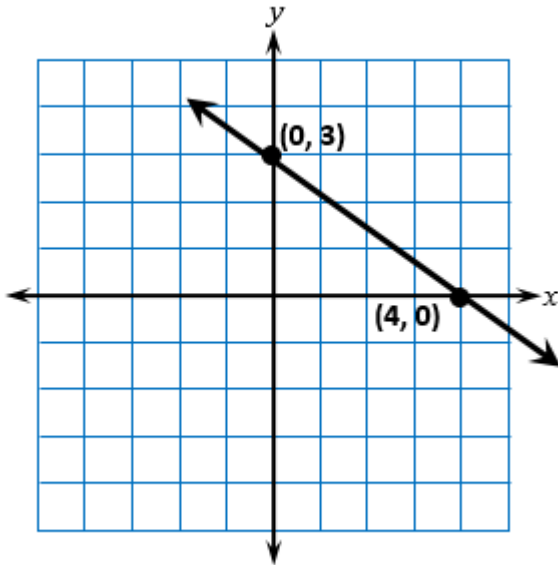


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(continued)

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 | 3 |
| 0 | 6 |
| 1 | 9 |
| 2 | 12 |

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



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.

(1, 7) and (3, 15)

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



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(continued)

Questions 10-12: Find the equivalent expression.

10.

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

2^8

2^{15}

4^8

4^{15}

11.

$$\frac{3^8}{3^2}$$

1^4

3^4

3^6

3^{10}

12.

$$(4^3)^5$$

4^{-2}

4^2

4^8

4^{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.

$$x^2 = 81$$

- 9 9 ± 9 40.5

14.

$$x^3 = 64$$

- 4 4 ± 4 32

15.

$$x^2 = \frac{9}{25}$$

- $-\frac{3}{5}$ $\frac{3}{5}$ $\pm \frac{3}{5}$ $\pm \frac{3}{25}$



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