



Name _____ Date _____

Algebra Concepts: Fall Progress

Questions 1-3: Add and subtract the integers.

1.

$$(-6) + 4$$

Answer: **-2**

2.

$$-8 - 3$$

Answer: **-11**

3.

$$6 - (-8)$$

Answer: **14**



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

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Number Correct = _____



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(continued)

Questions 4-6: Multiply and divide the integers.

4.

$$-3 \times 8$$

Answer: **-24**

5.

$$-7(-3)$$

Answer: **21**

6.

$$-28 \div -4$$

Answer: **7**



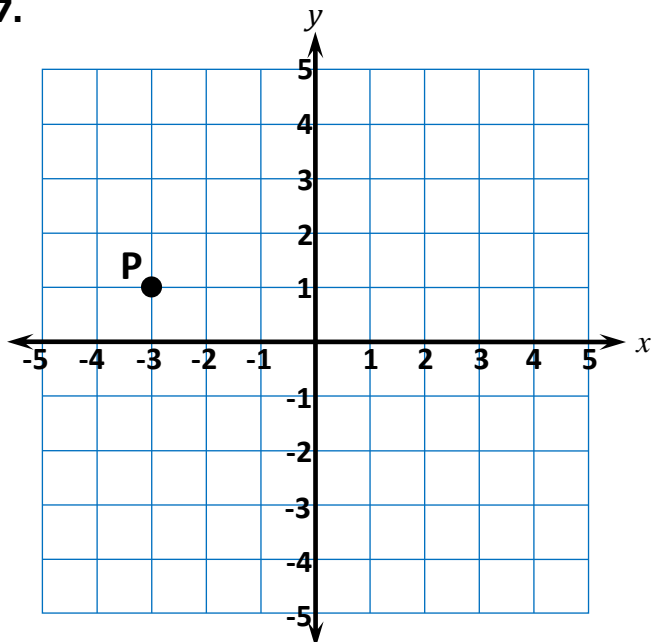
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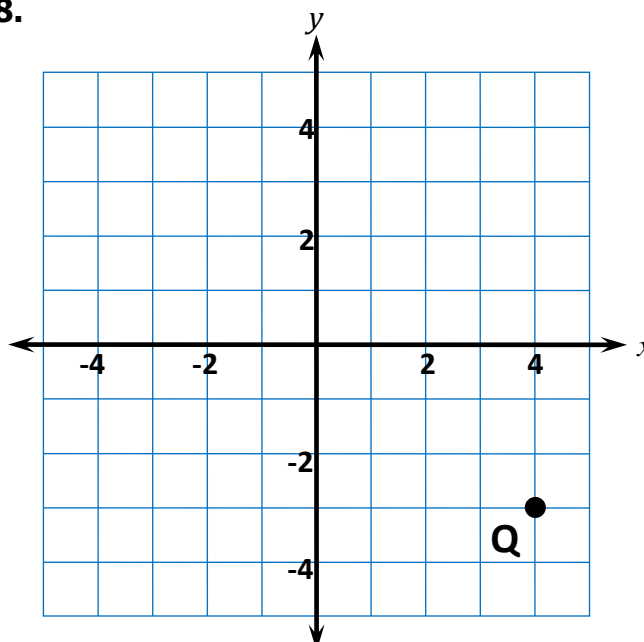
Questions 7-9: Write the ordered pair for the point.

7.



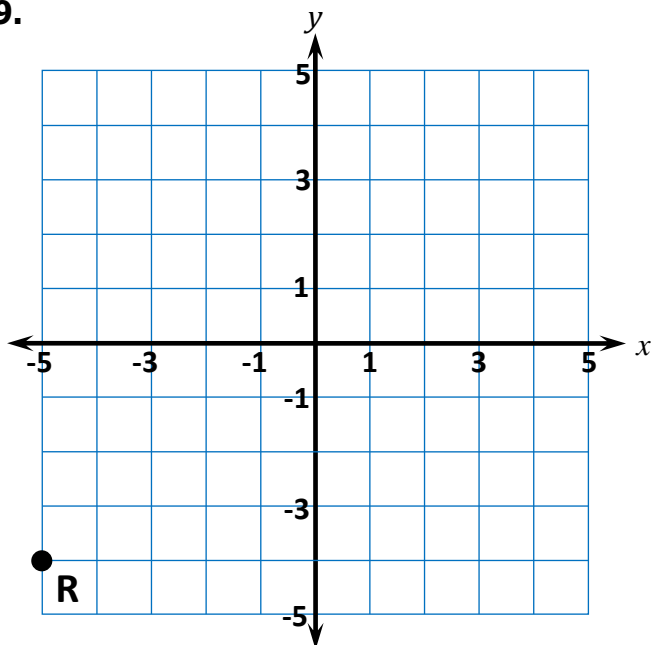
Answer: $(-3, 1)$

8.



Answer: $(4, -3)$

9.



Answer: $(-5, -4)$



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.

The product of x and 4, decreased by 3

$4x - 3$

$4(x - 3)$

$3x - 4$

$x + 4 - 3$

11.

2 more than 3 times x

$2x + 3$

$3x + 2$

$3(x + 2)$

$2(3 + x)$

12.

3 times the difference of x and 4

$4x - 3$

$4(x - 3)$

$3x - 4$

$3(x - 4)$



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



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Questions 13-15: Evaluate the expression for the given value of x .

13. Evaluate $3x + 4$ for $x = 5$.

Answer: **19**

14. Evaluate $x^2 + 5$ for $x = 4$.

Answer: **21**

15. Evaluate $18 - 4x$ for $x = 2$.

Answer: **10**



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

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(continued)

Questions 16-18: Find the equivalent expression.

16.

$$x + x$$

$2x^2$

$x + 2$

x^2

$2x$

17.

$$5x + 3 + 2x$$

$7x + 3$

$10x$

$10x^2$

$5x + 5$

18.

$$4(x + 3)$$

$4x + 3$

$4x + 12$

$x^4 + 7$

$x + 12$



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



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Questions 19-21: Solve the equation.

19.

$$x + 5 = 15$$

Answer: 10

20.

$$24 = 3x$$

Answer: 8

21.

$$\frac{1}{2}x = 10$$

Answer: 20



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

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(continued)

Questions 22-24: Find the equivalent expression.

22.

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

- $4x + 8$

 $3x + 8$

 $4x + 12$

 $3x + 12$

23.

$$(9x + 6) - (4x + 2)$$

- $5x + 8$

 $13x + 4$

 $5x + 4$

 $13x + 8$

24.

$$(5x + 4) - (2x - 3)$$

- $3x + 7$

 $3x + 1$

 $7x + 1$

 $7x + 7$



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

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(continued)

Questions 25-27: Find the equivalent expression.

25.

$$5(x + 3)$$

$5x + 15$

$5x + 3$

$15x$

$x + 15$

26.

$$9(7x + 4)$$

$7x + 36$

$63x + 36$

$99x$

$63x + 4$

27.

$$5(3x + 7) + x$$

$16x + 35$

$15x + 35$

$23x$

$16x + 7$



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

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(continued)

Questions 28-30: Find the equivalent expression.

28.

$$4x + 28$$

- $4(x + 7)$
 $4(x + 28)$
 $32x$
 $4x + 7$

29.

$$18x - 3$$

- $-3(6x + 1)$
 $3(6x - 1)$
 $15x$
 $3(15x - 1)$

30.

$$6x + 10$$

- $2(3x + 5)$
 $2(3x + 10)$
 $16x$
 $6(x + 4)$



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



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(continued)

Questions 31-33: Solve the equation.

31.

$$8 = 2x - 4$$

Answer: 6

32.

$$3(x + 5) = 21$$

Answer: 2

33.

$$\frac{1}{4}x + 5 = 7$$

Answer: 8



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