



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 = \_\_\_\_\_



# Algebra Concepts: Fall Progress

(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**



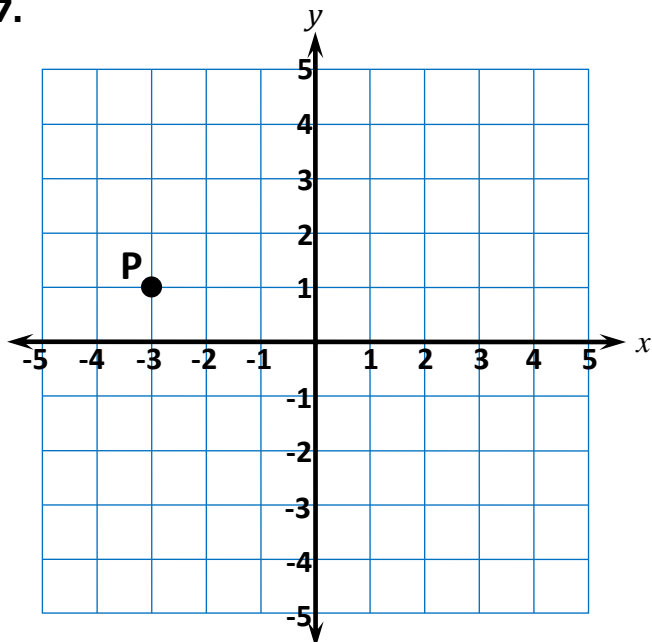
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# Algebra Concepts: Fall Progress

(continued)

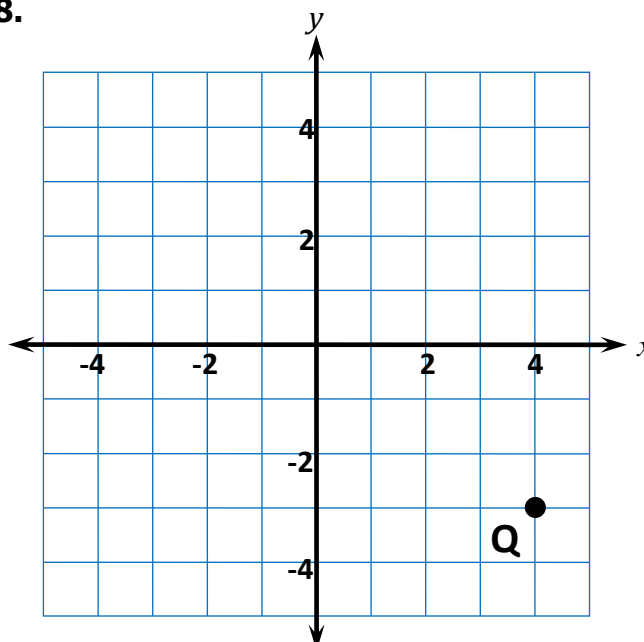
Questions 7-9: Write the ordered pair for the point.

7.



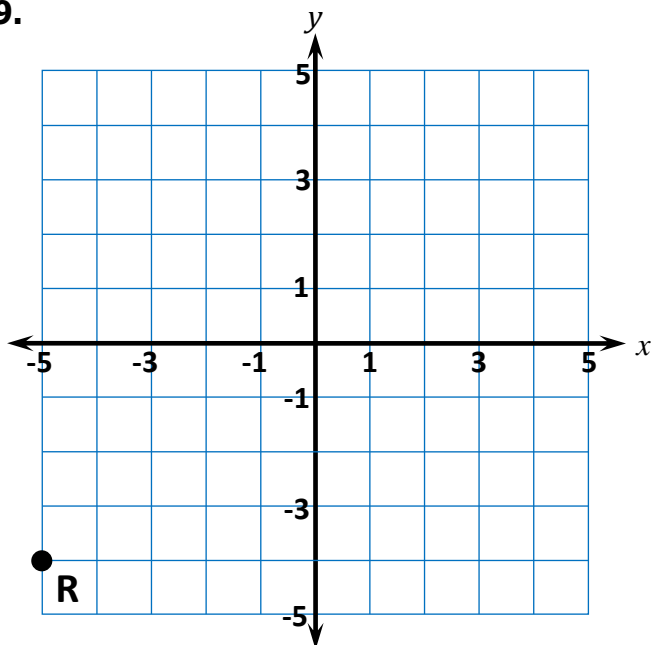
Answer:  $(-3, 1)$

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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(continued)

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.



# Algebra Concepts: Fall Progress

(continued)

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.

# Algebra Concepts: Fall Progress

(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.



# Algebra Concepts: Fall Progress

(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.

# Algebra Concepts: Fall Progress

(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.



# Algebra Concepts: Fall Progress

(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.