Name _____ Date _____

Algebra Concepts: Summer Post-Assessment

Questions 1-3: Add and subtract the integers.

1.

$(-8) + 3$

Answer: _____

2.

$-2 - 6$

Answer: _____

3.

$2 - (-8)$

Answer: _____

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

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Number Correct = _____

Algebra Concepts: Summer Post

(continued)

Questions 4-6: Multiply and divide the integers.

4.

9×-4

Answer: _____

5.

$-6(-5)$

Answer: _____

6.

$48 \div -6$

Answer: _____

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

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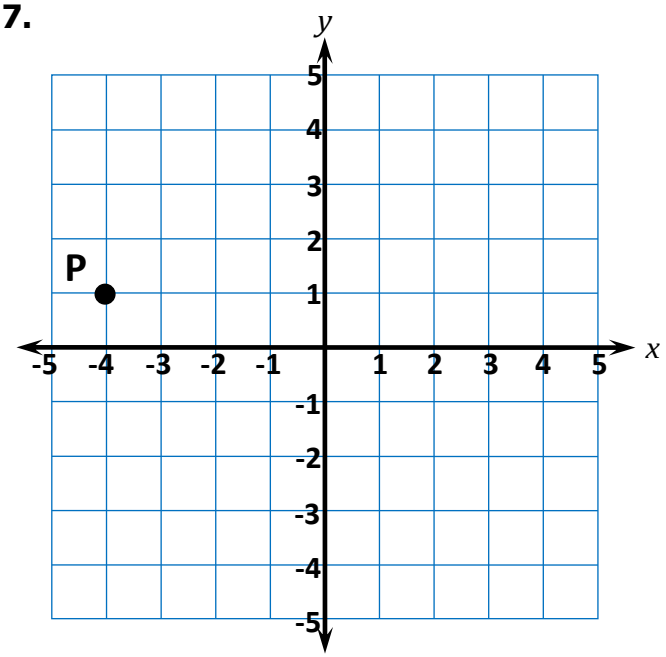
Algebra Concepts: Summer Post

(continued)

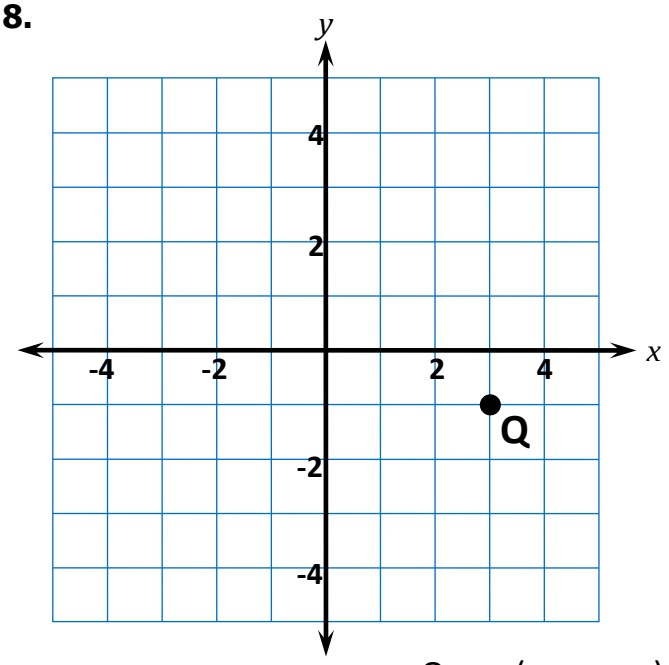
Questions 7-9: Write the ordered pair for the point.

7.



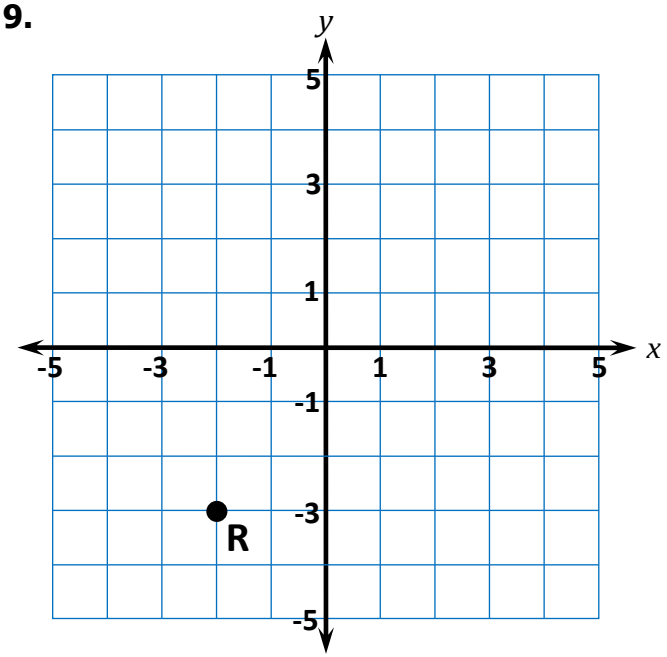
P = (,)

8.



Q = (,)

9.



R = (,)

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Algebra Concepts: Summer Post

(continued)

Questions 10-12: Find the equivalent expression.

10.

The product of x and 3, increased by 4

○ $4x + 3$ ○ $3(x + 4)$ ○ $3x + 4$ ○ $x + 3 + 4$

11.

5 less than 8 times x

○ $8x - 5$ ○ $5x - 8$ ○ $8 - 5x$ ○ $8(x - 5)$

12.

7 times the difference of x and 3

○ $3x - 7$ ○ $3(x - 7)$ ○ $7x - 3$ ○ $7(x - 3)$

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

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Algebra Concepts: Summer Post

(continued)

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

13. Evaluate $3x + 6$ for $x = 4$.

Answer: _____

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

Answer: _____

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

Answer: _____

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

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Algebra Concepts: Summer Post

(continued)

Questions 16-18: Find the equivalent expression.

16.

$$x + x$$

○ $2x$ ○ $2x^2$ ○ $x + 2$ ○ x^2

17.

$$2x + 8 + 4x$$

○ $14x$ ○ $2x + 12$ ○ $6x + 8$ ○ $14x^2$

18.

$$4(x + 6)$$

○ $x^4 + 10$ ○ $4x + 24$ ○ $4x + 6$ ○ $x + 24$

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

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Algebra Concepts: Summer Post

(continued)

Questions 19-21: Solve the equation.

19.

$$x + 3 = 12$$

$x =$ _____

20.

$$35 = 5x$$

$x =$ _____

21.

$$\frac{1}{2}x = 6$$

$x =$ _____

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

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Algebra Concepts: Summer Post

(continued)

Questions 22-24: Find the equivalent expression.

22.

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

○ $3x + 7$ ○ $3x + 12$ ○ $2x + 12$ ○ $2x + 7$

23.

$$(9x + 6) - (2x + 1)$$

○ $11x + 5$ ○ $7x + 7$ ○ $11x + 7$ ○ $7x + 5$

24.

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

○ $7x - 7$ ○ $10x - 12$ ○ $3x + 1$ ○ $3x + 7$

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Algebra Concepts: Summer Post

(continued)

Questions 25-27: Find the equivalent expression.

25.

$$7(x + 3)$$

○ $7x + 3$ ○ $7x + 21$ ○ $21x$ ○ $x + 21$

26.

$$4(6x + 2)$$

○ $6x + 8$ ○ $24x + 2$ ○ $32x$ ○ $24x + 8$

27.

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

○ $10x + 20$ ○ $11x + 20$ ○ $31x$ ○ $11x + 4$

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Algebra Concepts: Summer Post

(continued)

Questions 28-30: Find the equivalent expression.

28.

$4x + 20$

○ $4(x + 20)$ ○ $4(x + 5)$ ○ $24x$ ○ $4x + 5$

29.

$24x - 3$

○ $-3(8x + 1)$ ○ $3(8x - 1)$ ○ $21x$ ○ $3(21x - 1)$

30.

$15x + 35$

○ $15(x + 20)$ ○ $5(3x + 7)$ ○ $50x$ ○ $5(10x + 30)$

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Algebra Concepts: Summer Post

(continued)

Questions 31-33: Solve the equation.

31.

$$12 = 3x - 6$$

x = _____

32.

$$4(x + 3) = 20$$

x = _____

33.

$$\frac{1}{2}x + 3 = 9$$

x = _____

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

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