



Name \_\_\_\_\_ Date \_\_\_\_\_

## Algebra Concepts Screener - Spring

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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(continued)

Questions 4-6: Multiply and divide the integers.

4.

$$9 \times -4$$

Answer: \_\_\_\_\_

5.

$$-6(-5)$$

Answer: \_\_\_\_\_

6.

$$48 \div -6$$

Answer: \_\_\_\_\_

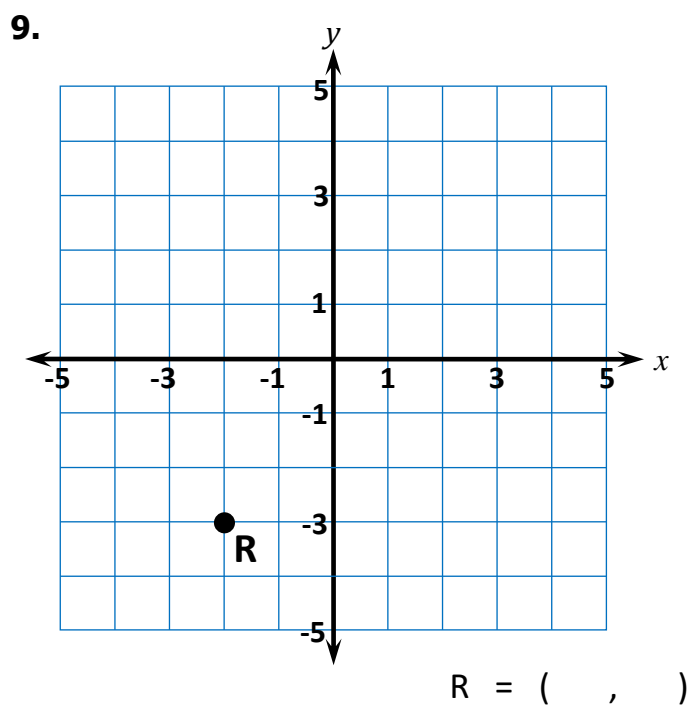
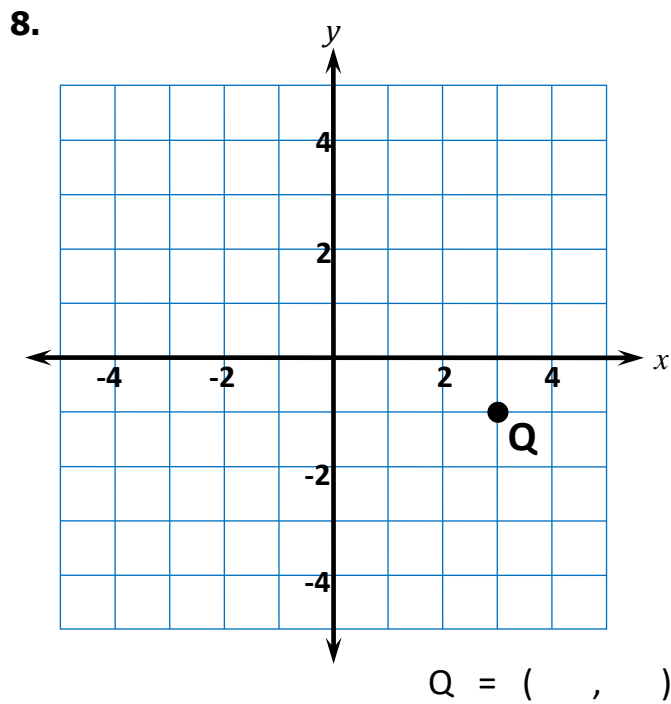
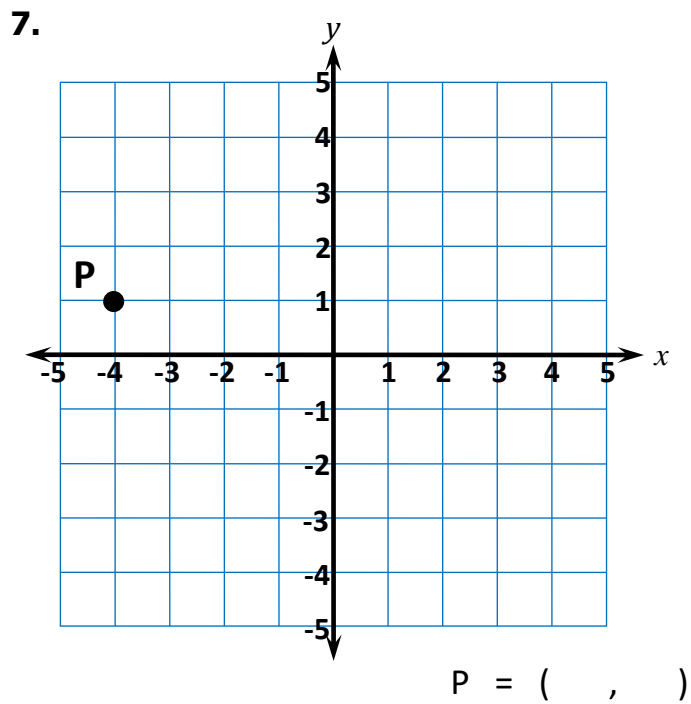


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(continued)

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



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(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

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



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(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: \_\_\_\_\_



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(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.**

$$4(x + 6)$$

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



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(continued)

Questions 19-21: Solve the equation.

19.

$$x + 3 = 12$$

$x =$  \_\_\_\_\_

20.

$$35 = 5x$$

$x =$  \_\_\_\_\_

21.

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

$x =$  \_\_\_\_\_



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(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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(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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(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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(continued)

Questions 31-33: Solve the equation.

31.

$$12 = 3x - 6$$

$x =$  \_\_\_\_\_

32.

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

$x =$  \_\_\_\_\_

33.

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

$x =$  \_\_\_\_\_



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