



Name _____ Date _____

Algebra Concepts Screener - Fall Answer Key

Questions 1-3: Add and subtract the integers.

1.

$$(-5) + 3$$

Answer: -2

2.

$$-7 - 2$$

Answer: -9

3.

$$4 - (-6)$$

Answer: 10



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.

$$-6 \times 2$$

Answer: -12

5.

$$-3(-5)$$

Answer: 15

6.

$$-42 \div 6$$

Answer: -7

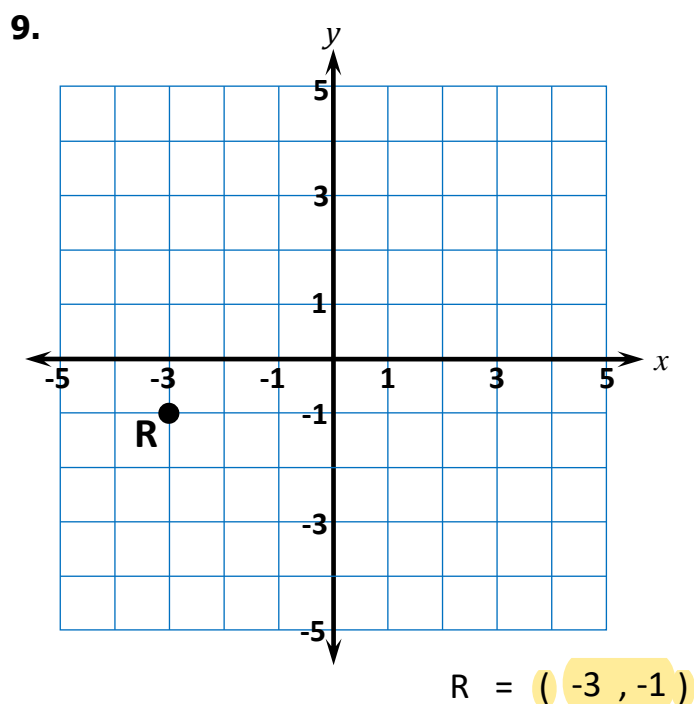
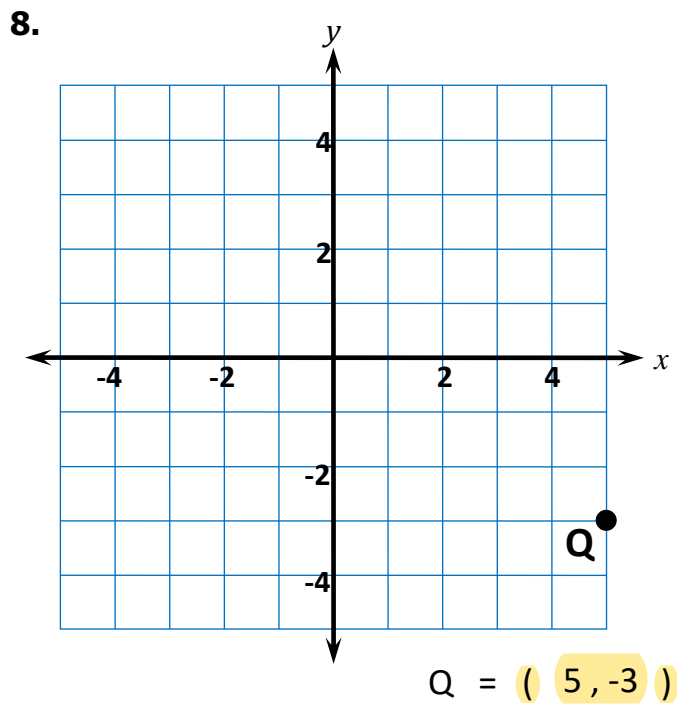
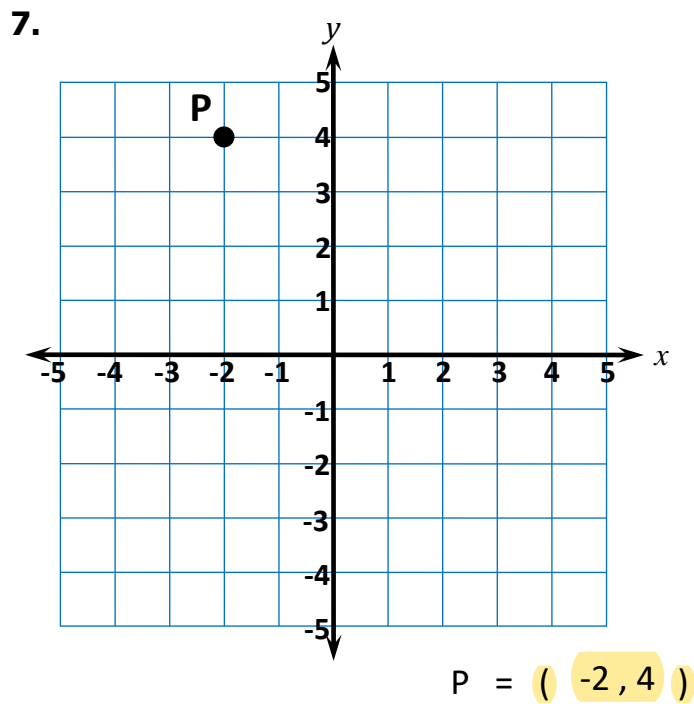


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Questions 7-9: Write the ordered pair for the point.





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(continued)

Questions 10-12: Find the equivalent expression.

10.

The product of x and 5, plus 2

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

11.

4 less than 6 times x

- $4x - 6$ $6(x - 4)$ $6(4 - x)$ $6x - 4$

12.

2 times the quantity of x plus 7

- $7(x + 2)$ $2(x + 7)$ $2x + 7$ $7x + 2$



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 $4x + 3$ for $x = 2$.

Answer: 11

14. Evaluate $x^2 + 5$ for $x = 3$.

Answer: 14

15. Evaluate $20 - 3x$ for $x = 4$.

Answer: 8



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.

$$x + x + x$$

- $x + 3$
 $3x$
 x^3
 $3x^3$

17.

$$6x + 2 + 3x$$

- $6x + 5$
 $9x + 2$
 $11x^2$
 $11x$

18.

$$2(x + 3)$$

- $2x + 6$
 $x + 6$
 $x^2 + 6$
 $2x + 3$



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



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(continued)

Questions 19-21: Solve the equation.

19.

$$x + 4 = 12$$

$$x = 8$$

20.

$$12 = 3x$$

$$x = 4$$

21.

$$\frac{1}{3}x = 6$$

$$x = 18$$



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.

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

- $5x + 7$ $4x + 5$ $4x + 7$ $5x + 5$

23.

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

- $3x + 7$ $7x + 7$ $3x - 1$ $7x - 1$

24.

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

- $5x - 1$ $3x + 1$ $5x + 5$ $3x + 5$



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.

$$3(x + 2)$$

- $3x + 2$ $3x + 6$ $6x$ $x + 6$

26.

$$7(6x + 3)$$

- $42x + 21$ $42x + 3$ $63x$ $6x + 21$

27.

$$4(2x + 8) + x$$

- $9x + 8$ $8x + 32$ $41x$ $9x + 32$



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.

$$6x + 18$$

- $6(x + 3)$ $6(x + 18)$ $24x$ $6x + 3$

29.

$$20x - 5$$

- $-5(4x + 1)$ $5(4x - 1)$ $15x$ $5(15x - 1)$

30.

$$8x + 12$$

- $8(x + 4)$ $4(4x + 8)$ $20x$ $4(2x + 3)$



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



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(continued)

Questions 31-33: Solve the equation.

31.

$$18 = 3x - 6$$

$$x = 8$$

32.

$$2(x + 3) = 14$$

$$x = 4$$

33.

$$\frac{1}{3}x + 2 = 8$$

$$x = 18$$



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