

Name	Dat	e

**Questions 1-3:** Add and subtract the integers.

1	
J	-

$$(-7) + 4$$

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

2.

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

3.

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



(continued)

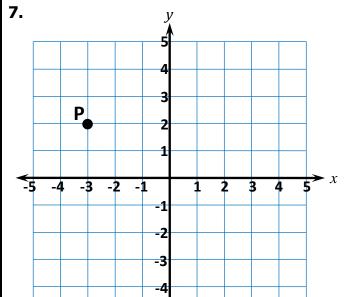
### **Questions 4-6:** Multiply and divide the integers.

		-
4.		
	-4 x 7	
		Answer:
5.		
	-4(-6)	
		Answer:
6.		
	-56 ÷ 8	
		Answer:

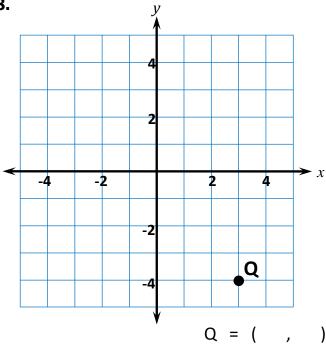


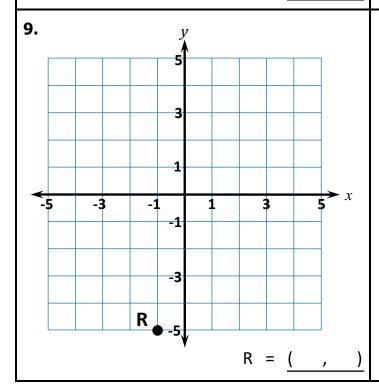
(continued)

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



8.





Questions 10-12: Find the equivalent expression.

10.

The product of x and 6, decreased by 2

- $\circ$  6x 2  $\circ$  6(x 2)  $\circ$  2x 6  $\circ$  x + 6 2

11.

3 more than 5 times x

- $\circ$  3x + 5  $\circ$  5x + 3  $\circ$  5(x + 3)  $\circ$  3(5 + x)

12.

4 times the quantity of *x* minus 6

- $\circ$  6x 4  $\circ$  6(x 4)  $\circ$  4x 6  $\circ$  4(x 6)



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

**13.** Evaluate 5x + 2 for x = 3.

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

**14.** Evaluate  $x^2 + 6$  for x = 4.

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

**15.** Evaluate 13 - 2x for x = 3.

Answer:



Questions 16-18: Find the equivalent expression.

16.

$$x + x + x + x$$

 $04x^4$ 

$$\circ$$
  $x + 4$ 

$$\circ$$
  $x^4$ 

$$\circ$$
 4x

**17**.

$$4x + 3 + 2x$$

 $\circ$  6x + 3



$$\bigcirc$$
  $9x^2$ 

$$\circ$$
 4x + 5

18.

$$3(x + 4)$$

$$\circ$$
 3x + 12

$$\circ$$
  $x^3 + 7$ 

$$\bigcirc$$
 3x + 4  $\bigcirc$  3x + 12  $\bigcirc$  x<sup>3</sup> + 7  $\bigcirc$  x + 12



## Questions 19-21: Solve the equation.

19.

$$x + 5 = 10$$

*x* = \_\_\_\_\_

20.

$$24 = 4x$$

*x* = \_\_\_\_\_

21.

$$\frac{1}{4}x = 8$$

*x* = \_\_\_\_\_



### Questions 22-24: Find the equivalent expression.

22.

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

 $\circ$  3x + 5  $\circ$  3x + 8  $\circ$  2x + 5  $\circ$  2x + 8

23.

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

 $\circ$  10x + 15  $\circ$  2x + 15  $\circ$  10x + 3  $\circ$  2x + 3

24.

$$(10x + 2) - (8x - 4)$$

 $\circ$  2x - 2  $\circ$  2x + 6  $\circ$  18x + 6  $\circ$  18x - 2



Questions 25-27: Find the equivalent expression.

25.

$$4(x + 6)$$

$$\bigcirc 4x + 24 \qquad \bigcirc 4x + 6 \qquad \bigcirc 24x$$

$$0.4x + 6$$

$$\circ$$
 24x

$$\circ$$
  $x + 24$ 

26.

$$8(5x + 2)$$

$$\circ$$
 40x + 2  $\circ$  40x + 16  $\circ$  56x

$$\circ$$
 40x + 16

$$\circ$$
 56x

$$\circ$$
 5x + 16

**27.** 

$$3(4x+6)+x$$

$$\circ$$
 13x + 6

$$\circ$$
 13x + 6  $\circ$  12x + 18  $\circ$  31x

$$\circ$$
 31 $x$ 

$$\circ$$
 13x + 18

### Questions 28-30: Find the equivalent expression.

28.

$$5x + 30$$

$$\circ$$
 5(x + 6)

$$\circ$$
 5(x + 6)  $\circ$  5(x + 30)  $\circ$  35x  $\circ$  5x + 6

$$\circ$$
 35x

$$\circ$$
 5x + 6

29.

$$12x - 4$$

$$\circ$$
 -4(3x + 1)  $\circ$  4(3x - 1)  $\circ$  8x  $\circ$  4(8x - 1)

$$\circ$$
 4(3x - 1)

$$\circ$$
 8x

$$\circ$$
 4(8x - 1)

30.

$$6x + 15$$

$$\circ$$
 6(x + 9)

$$\circ$$
 6(x + 9)  $\circ$  3(3x + 12)  $\circ$  21x  $\circ$  3(2x + 5)

$$\circ$$
 21 $x$ 

$$\circ$$
 3(2x + 5)



(continued)

#### Questions 31-33: Solve the equation.

31.

$$14 = 2x - 6$$

*x* = \_\_\_\_\_

**32.** 

$$3(x+2) = 15$$

*x* = \_\_\_\_\_

33.

$$\frac{1}{4}x + 2 = 10$$

*x* = \_\_\_\_\_

