



Name _____ Date _____

8th Grade Tier 3 Screener - Spring

Questions 1-3: Evaluate the expression.

1.

$$6 \times (3 + 4)$$

Answer: _____

2.

$$9 - (4 - 3)$$

Answer: _____

3.

$$(7 - 3) \times (2 + 6)$$

Answer: _____



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

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(continued)

Questions 4-6: Multiply the multi-digit numbers.

4.

$$\begin{array}{r} 3,519 \\ \times \quad 5 \\ \hline \end{array}$$

Answer: _____

5.

$$\begin{array}{r} 62 \\ \times 34 \\ \hline \end{array}$$

Answer: _____

6.

$$\begin{array}{r} 527 \\ \times 13 \\ \hline \end{array}$$

Answer: _____



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

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(continued)

Questions 7-9: Divide the multi-digit numbers.

7.

$$5 \overline{) 2,285}$$

Answer: _____

8.

$$4 \overline{) 9,652}$$

Answer: _____

9.

$$15 \overline{) 2,760}$$

Answer: _____



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(continued)

Questions 10-12: Add and subtract the mixed numbers.

10.

$$\begin{array}{r} 4 \frac{3}{5} \\ + 3 \frac{1}{2} \\ \hline \end{array}$$

Answer: _____

11.

$$\begin{array}{r} 8 \\ - 2 \frac{1}{6} \\ \hline \end{array}$$

Answer: _____

12.

$$\begin{array}{r} 6 \frac{1}{5} \\ - 1 \frac{2}{3} \\ \hline \end{array}$$

Answer: _____



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(continued)

Questions 13-15: Multiply the fractions.

13.

$$\frac{1}{5} \times \frac{2}{3}$$

Answer: _____

14.

$$\frac{6}{7} \times \frac{2}{5}$$

Answer: _____

15.

$$\frac{2}{5} \times \frac{5}{6}$$

Answer: _____



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(continued)

Questions 16-18: Divide the fractions by whole numbers.

16.

$$\frac{1}{6} \div 3$$

Answer: _____

17.

$$\frac{1}{9} \div 5$$

Answer: _____

18.

$$\frac{1}{8} \div 7$$

Answer: _____



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(continued)

Questions 19-21: Write the answer to each division problem.

19.

$$11 \div \frac{1}{3}$$

Answer: _____

20.

$$5 \div \frac{1}{4}$$

Answer: _____

21.

$$9 \div \frac{1}{6}$$

Answer: _____



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(continued)

Questions 22-24: Multiply and divide fractions.

22.

$$\frac{3}{5} \times \frac{2}{9}$$

Answer: _____

23.

$$\frac{3}{4} \div \frac{2}{3}$$

Answer: _____

24.

$$\frac{4}{7} \div \frac{2}{5}$$

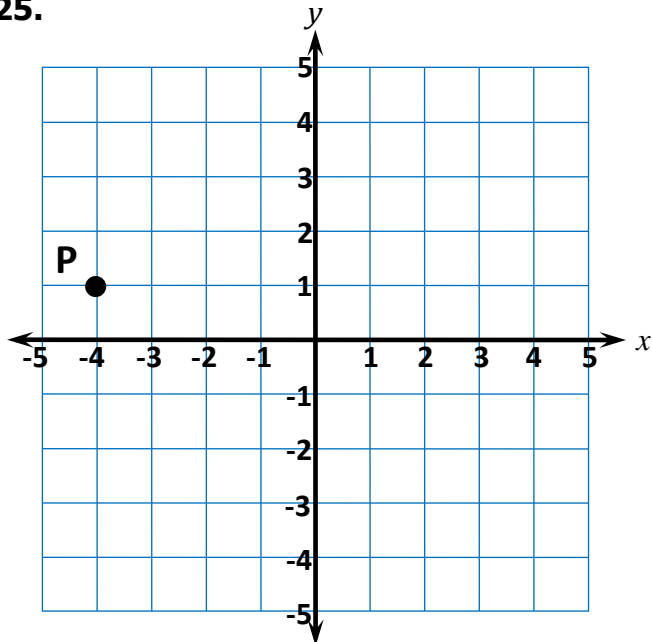
Answer: _____



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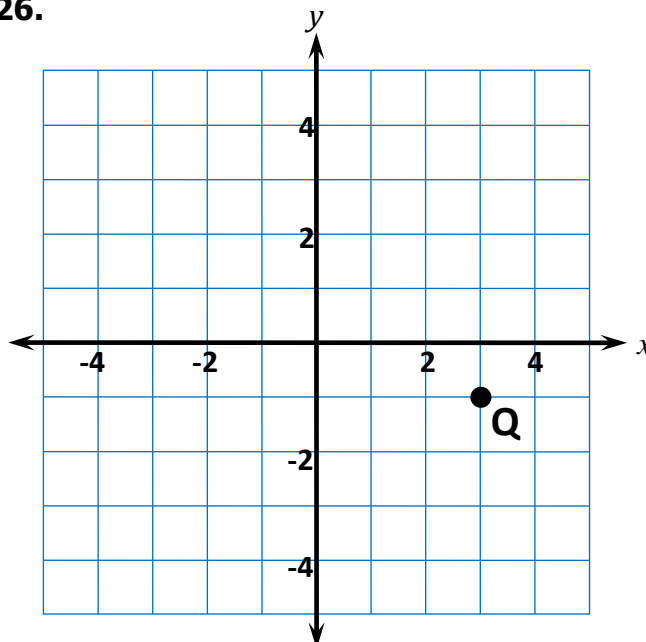
Questions 25-27: Write the ordered pair for the point.

25.



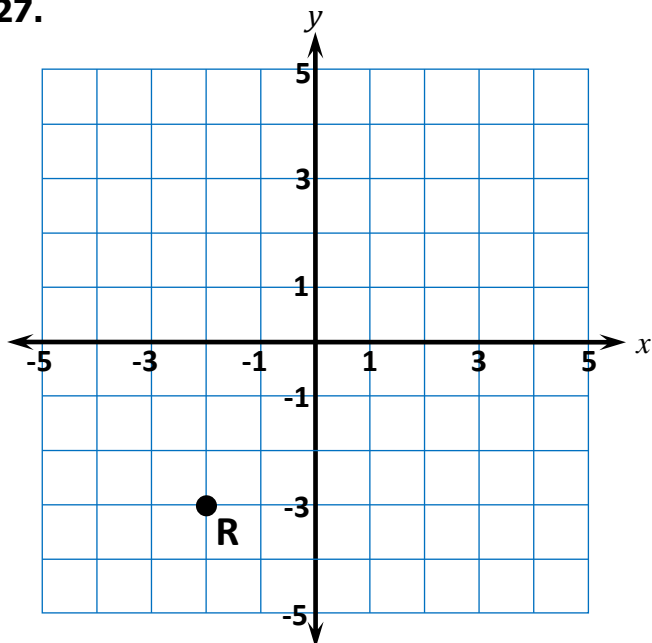
P = (,)

26.



Q = (,)

27.



R = (,)



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.

The product of x and 3, increased by 4

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

29.

5 less than 8 times x

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

30.

7 times the difference of x and 3

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



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Questions 31-33: Evaluate the expression for the given value of x .

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

Answer: _____

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

Answer: _____

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

Answer: _____



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(continued)

Questions 34-36: Find the equivalent expression.

34.

$$x + x$$

- $2x$ $2x^2$ $x + 2$ x^2

35.

$$2x + 8 + 4x$$

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

36.

$$4(x + 6)$$

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



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(continued)

Questions 37-39: Solve the equation.

37.

$$x + 3 = 12$$

$x =$ _____

38.

$$35 = 5x$$

$x =$ _____

39.

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

$x =$ _____



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