



Name _____ Date _____

8th Grade Tier 3 Screener - Fall

Questions 1-3: Evaluate the expression.

1.

$$3 \times (2 + 5)$$

Answer: _____

2.

$$8 - (4 - 1)$$

Answer: _____

3.

$$(6 - 2) \times (3 + 4)$$

Answer: _____



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



8th Grade Tier 3 Screener - Fall

(continued)

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

4.

$$\begin{array}{r} 3628 \\ \times \quad 4 \\ \hline \end{array}$$

Answer: _____

5.

$$\begin{array}{r} 57 \\ \times 26 \\ \hline \end{array}$$

Answer: _____

6.

$$\begin{array}{r} 724 \\ \times 15 \\ \hline \end{array}$$

Answer: _____



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



8th Grade Tier 3 Screener - Fall

(continued)

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

7.

$$6 \overline{)2,304}$$

Answer: _____

8.

$$3 \overline{)7,551}$$

Answer: _____

9.

$$14 \overline{)2,492}$$

Answer: _____



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

8th Grade Tier 3 Screener - Fall

(continued)

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

10.

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

Answer: _____

11.

$$\begin{array}{r} 7 \\ - 2\frac{3}{5} \\ \hline \end{array}$$

Answer: _____

12.

$$\begin{array}{r} 8\frac{2}{5} \\ - 3\frac{1}{2} \\ \hline \end{array}$$

Answer: _____



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



8th Grade Tier 3 Screener - Fall

(continued)

Questions 13-15: Multiply the fractions.

13.

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

Answer: _____

14.

$$\frac{7}{8} \times \frac{3}{5}$$

Answer: _____

15.

$$\frac{3}{4} \times \frac{2}{7}$$

Answer: _____



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



8th Grade Tier 3 Screener - Fall

(continued)

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

16.

$$\frac{1}{9} \div 3$$

Answer: _____

17.

$$\frac{1}{4} \div 8$$

Answer: _____

18.

$$\frac{1}{10} \div 2$$

Answer: _____



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



8th Grade Tier 3 Screener - Fall

(continued)

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

19.

$$6 \div \frac{1}{4}$$

Answer: _____

20.

$$8 \div \frac{1}{2}$$

Answer: _____

21.

$$7 \div \frac{1}{4}$$

Answer: _____



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



8th Grade Tier 3 Screener - Fall

(continued)

Questions 22-24: Multiply and divide fractions.

22.

$$\frac{2}{3} \times \frac{5}{6}$$

Answer: _____

23.

$$\frac{3}{4} \div \frac{5}{7}$$

Answer: _____

24.

$$\frac{7}{8} \div \frac{1}{2}$$

Answer: _____



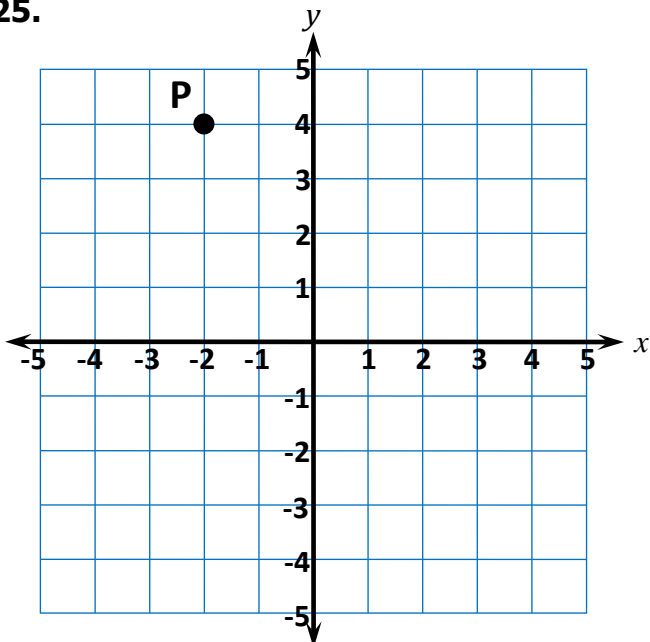
Please stop, put your pencil down and wait for the next directions.

8th Grade Tier 3 Screener - Fall

(continued)

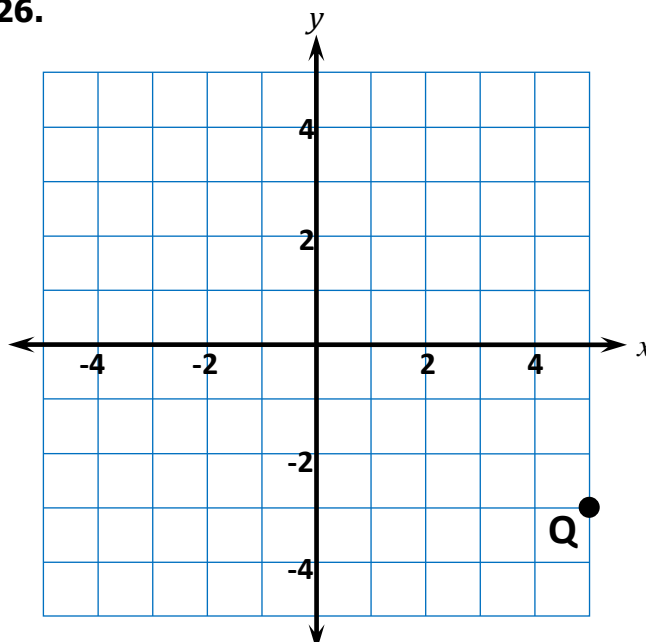
Questions 25-27: Write the ordered pair for the point.

25.



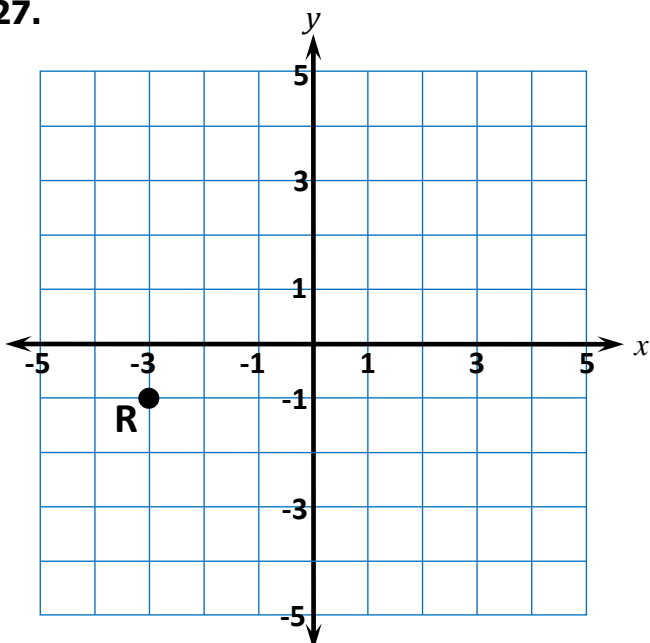
P = (,)

26.



Q = (,)

27.



R = (,)



8th Grade Tier 3 Screener - Fall

(continued)

Questions 28-30: Find the equivalent expression.

28.

The product of x and 5, plus 2

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

29.

4 less than 6 times x

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

30.

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.



8th Grade Tier 3 Screener - Fall

(continued)

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

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

Answer: _____

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

Answer: _____

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

Answer: _____



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



8th Grade Tier 3 Screener - Fall

(continued)

Questions 34-36: Find the equivalent expression.

34.

$$x + x + x$$

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

35.

$$6x + 2 + 3x$$

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

36.

$$2(x + 3)$$

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



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



8th Grade Tier 3 Screener - Fall

(continued)

Questions 37-39: Solve the equation.

37.

$$x + 4 = 12$$

$x =$ _____

38.

$$12 = 3x$$

$x =$ _____

39.

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

$x =$ _____



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