



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

## 8<sup>th</sup> Grade Tier 3 Screener - Winter

Questions 1-3: Evaluate the expression.

1.

$$4 \times (3 + 5)$$

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

2.

$$10 - (5 - 2)$$

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

3.

$$(8 - 2) \times (5 + 3)$$

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.

$$\begin{array}{r} 2416 \\ \times \quad 3 \\ \hline \end{array}$$

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

5.

$$\begin{array}{r} 48 \\ \times 14 \\ \hline \end{array}$$

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

6.

$$\begin{array}{r} 638 \\ \times 14 \\ \hline \end{array}$$

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



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



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

7.

$$4 \overline{) 2,372}$$

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

8.

$$5 \overline{) 7,045}$$

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

9.

$$12 \overline{) 1,944}$$

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



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and wait for the next directions.

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

**10.**

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

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

**11.**

$$\begin{array}{r} 6 \\ - 2 \frac{3}{4} \\ \hline \end{array}$$

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

**12.**

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

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



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



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Questions 13-15: Multiply the fractions.

**13.**

$$\frac{1}{4} \times \frac{3}{5}$$

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

**14.**

$$\frac{5}{6} \times \frac{1}{7}$$

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

**15.**

$$\frac{2}{3} \times \frac{5}{8}$$

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



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

16.

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

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

17.

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

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

18.

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

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



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

19.

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

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

20.

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

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

21.

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

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



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Questions 22-24: Multiply and divide fractions.

22.

$$\frac{2}{5} \times \frac{3}{4}$$

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

23.

$$\frac{2}{3} \div \frac{4}{5}$$

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

24.

$$\frac{5}{6} \div \frac{1}{3}$$

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



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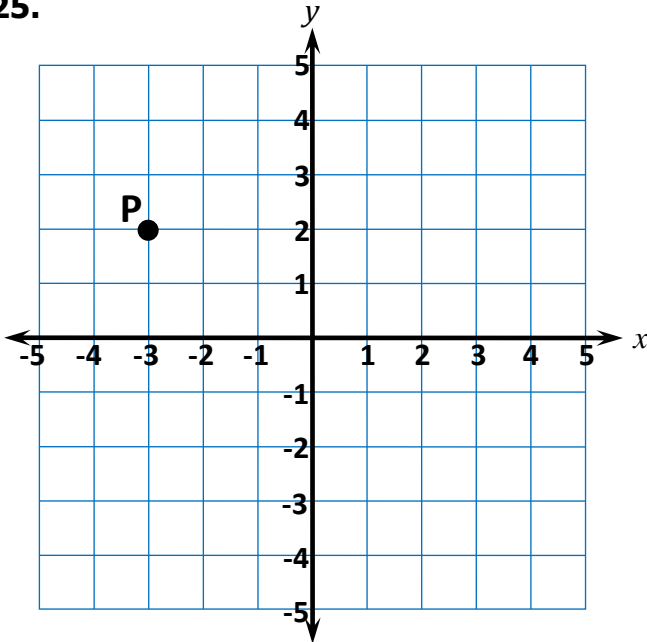


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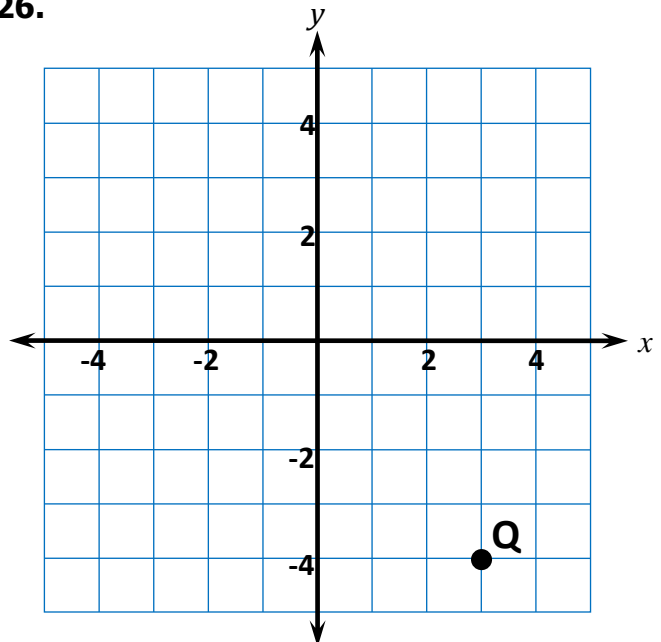
Questions 25-27: Write the ordered pair for the point.

25.



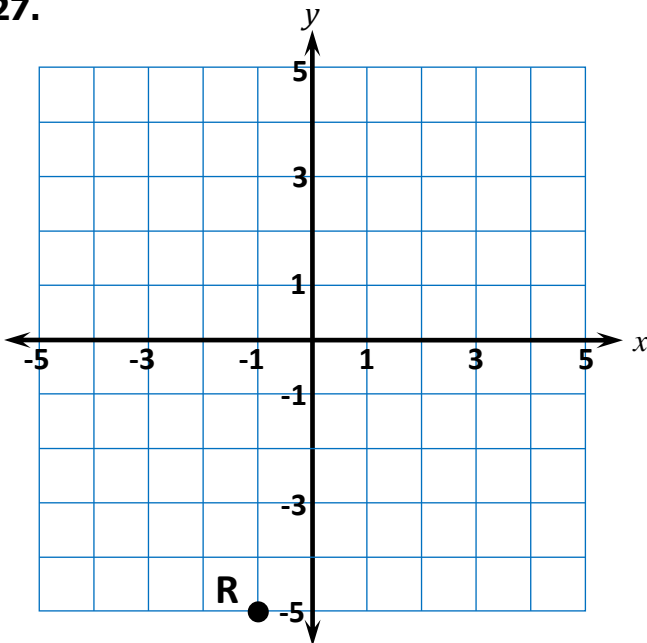
P = (      ,      )

26.



Q = (      ,      )

27.



R = (      ,      )



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Questions 28-30: Find the equivalent expression.

28.

The product of  $x$  and 6, decreased by 2

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

29.

3 more than 5 times  $x$

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

30.

4 times the quantity of  $x$  minus 6

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



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



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

**31.** Evaluate  $5x + 2$  for  $x = 3$ .

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

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

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

**33.** Evaluate  $13 - 2x$  for  $x = 3$ .

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



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



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Questions 34-36: Find the equivalent expression.

34.

$$x + x + x + x$$

- $4x^4$         $x + 4$         $x^4$         $4x$

35.

$$4x + 3 + 2x$$

- $6x + 3$         $9x$         $9x^2$         $4x + 5$

36.

$$3(x + 4)$$

- $3x + 4$         $3x + 12$         $x^3 + 7$         $x + 12$



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Questions 37-39: Solve the equation.

37.

$$x + 5 = 10$$

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

38.

$$24 = 4x$$

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

39.

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

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



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