



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

## 8<sup>th</sup> Grade Tier 3 Screener - Spring Answer Key

Questions 1-3: Evaluate the expression.

1.

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

Answer: 42

2.

$$9 - (4 - 3)$$

Answer: 8

3.

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

Answer: 32



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: 17595

5.

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

Answer: 2108

6.

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

Answer: 6851



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: 457

8.

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

Answer: 2413

9.

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

Answer: 184



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

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

**10.**

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

Answer: 8  $\frac{1}{10}$

**11.**

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

Answer: 5  $\frac{5}{6}$

**12.**

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

Answer: 4  $\frac{8}{15}$



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



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Questions 13-15: Multiply the fractions.

13.

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

Answer:  $\frac{2}{15}$

14.

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

Answer:  $\frac{12}{35}$

15.

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

Answer:  $\frac{1}{3}$



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



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

16.

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

Answer:  $\frac{1}{18}$

17.

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

Answer:  $\frac{1}{45}$

18.

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

Answer:  $\frac{1}{56}$



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



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

19.

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

Answer: 33

20.

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

Answer: 20

21.

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

Answer: 54/1



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



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Questions 22-24: Multiply and divide fractions.

22.

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

Answer:  $\frac{2}{15}$

23.

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

Answer:  $\frac{9}{8}$

24.

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

Answer:  $\frac{10}{7}$



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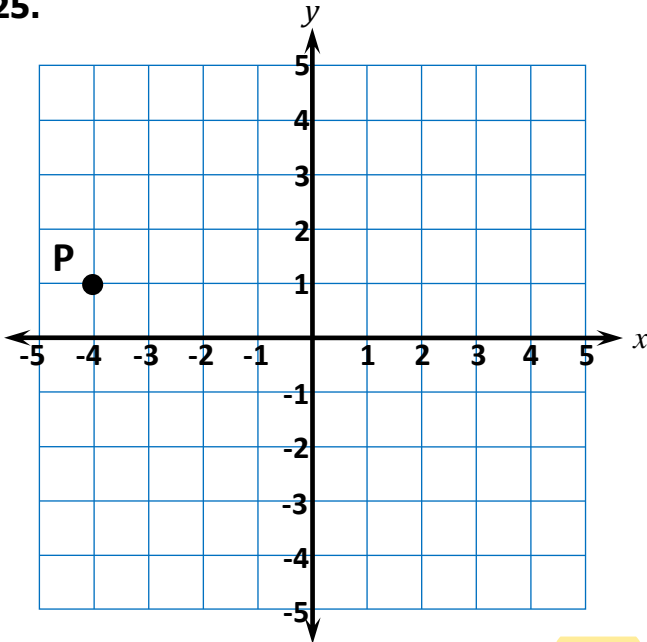


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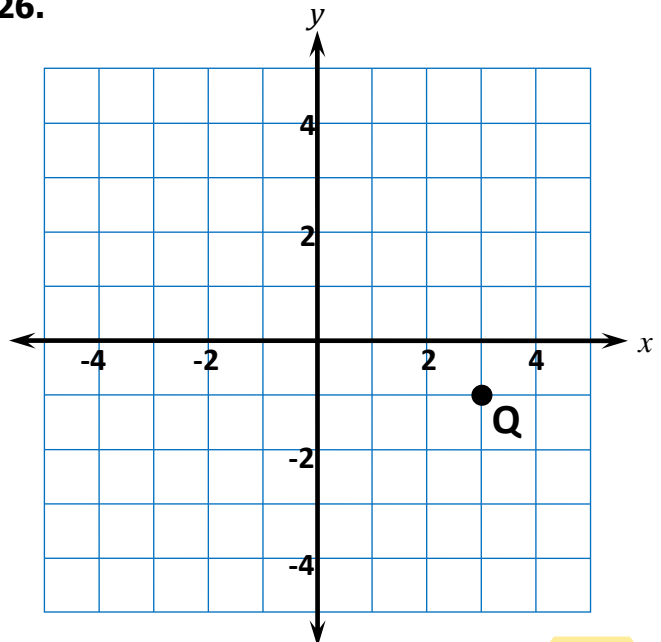
Questions 25-27: Write the ordered pair for the point.

25.



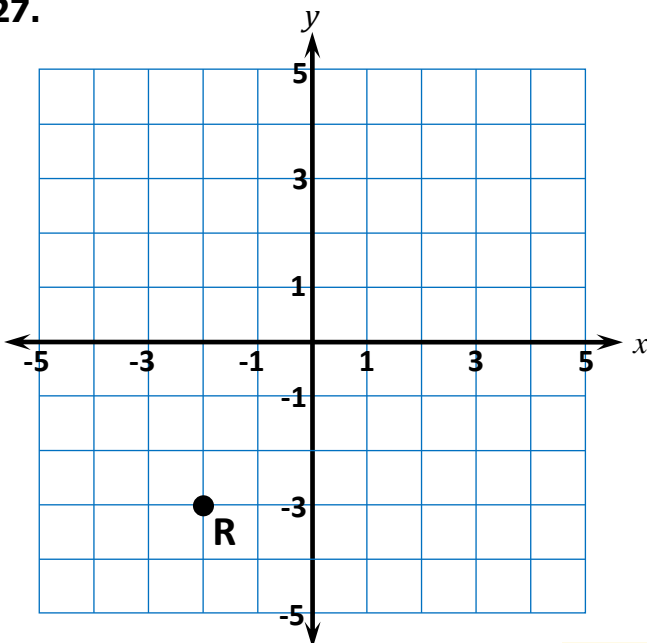
P = ( -4 , 1 )

26.



Q = ( 3 , -1 )

27.



R = ( -2 , -3 )



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



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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

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



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

Answer: 18

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

Answer: 29

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

Answer: 7



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



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Questions 34-36: Find the equivalent expression.

34.

$$x + x$$

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

35.

$$2x + 8 + 4x$$

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

36.

$$4(x + 6)$$

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



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



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Questions 37-39: Solve the equation.

37.

$$x + 3 = 12$$

$$x = 9$$

38.

$$35 = 5x$$

$$x = 7$$

39.

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

$$x = 12$$



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