

Name: _____

Honors Algebra 1/Algebra 1 Summer Math Assignment **Burnet MS/Kawameeh MS**

1) $-3z - (-z - 2)$

2) $6(5r - 11) - (5 - r)$

3) Which statement is true about the following linear equation?

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

- A. The line has a negative slope
- B. The graph of the equations crosses the y-axis at (0,-8)
- C. The point (4,9) lies on the line
- D. The slope of the line is zero

4) Robert has to pay the price of his meal (c) plus a 20% tip. Which of the following expressions can be used to calculate the total bill? Select all that apply.

A. $1.2c$

B. $c + 20c$

C. $c + 0.20c$

D. $0.80c$

5) $9x - 7 = -7$

6) $-1 = \frac{5+x}{6}$

7) Solve the inequality. $-2x + 4 \geq 24$

8) Find the slope from the given coordinates.

(19, -16) and (-7, -15)

9) Evaluate the expression when $x = 4$ and $y = 23$.

$$5x^2 - y$$

10) What is the Least Common Multiple (LCM) of 20 and 12?

11) Which of the following is the prime factorization of 28?

A. 2×7

B. 4×7

C. $2 \times 2 \times 7$

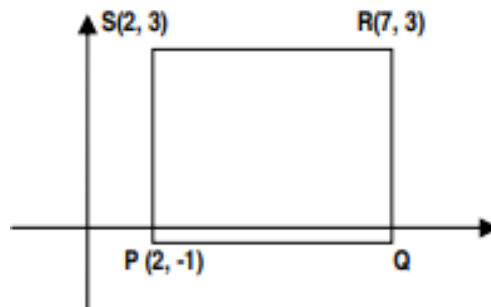
D. $2 \times 3 \times 3$

12) If $y = \frac{1}{4}$, then $\frac{15}{y} =$

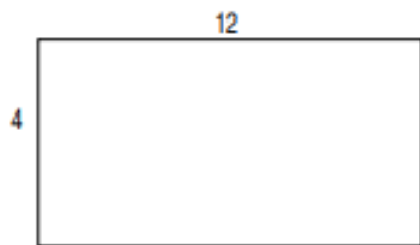
13) On a number line, what number represents the point half the distance between A and B.



14) What are the coordinates of point Q of rectangle PQRS shown in the figure?



15) Find the perimeter of the rectangle.



16) Convert 8.75% to a decimal.

17) Write 0.625 as a fraction in simplest form.

18) Solve. $\frac{2}{5}y = 6$

19) Which of the following is a solution to $3x - 2y = 6$

A. (2, 3)

B. (0, 3)

C. (3, 0)

D. (4, 3)

20) Solve the equation. $4x + 8 = 3x - 1$

21) Nine less than five times a number is three more than twice the number. Choose the equation to find the unknown number. Then solve.

22) Solve. $24 + 24 \div 4 \cdot 2 - 22$

23) Name the coefficient(s) of the expression.

$$4x + 9 - y$$

24) Graph the solution on the number line. $-2 < k$

25) The Johnsons framed a family picture to hang on the wall. The perimeter of the frame is 70 inches. Use the formula $P = 2l + 2w$ to find the length of the frame if the width is 17 inches.