Cumulative Review #012822 Name_____

Period and Class_____

Solve each equation.

1) $6 + \frac{x}{9} = 5$

2) $-18 = 2(n - 5)$

3) $5 + 4r = 4r + 5$

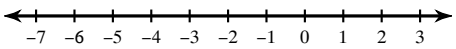
4) $|n - 8| - 2 = 5$

Solve each equation for the indicated variable.

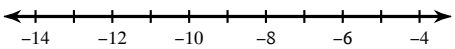
5) 6x - 5 y = 17 for y

Solve each inequality and graph its solution.

6) $v + 3 \leq 4$

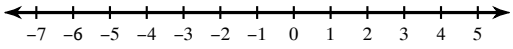


7) $x - 9 > -17$



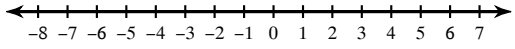
Solve each compound inequality and graph its solution.

8) $-2 \leq 2 - 4r < 10$



Solve each inequality and graph its solution.

9) $|r| > 4$



10) Evaluate the function:
f(x) = 7x - 13 for x = 2

11) Find the value of x so that the function has the given value:
f(x) = 7x - 13 ; f(x) = 43

12) Find the intercepts of:
y = 8 x + 1

Find the slope of the line through each pair of points.

13) $(-20, 9), (-12, -11)$

Write the point-slope form of the equation of the line through the given point with the given slope.

14) through: $(1, 5)$, slope = 9

Write the point-slope form of the equation of the line described.

15) through: $(1, 3)$, parallel to $y = \frac{1}{5}x + 1$

Solve each system by substitution.

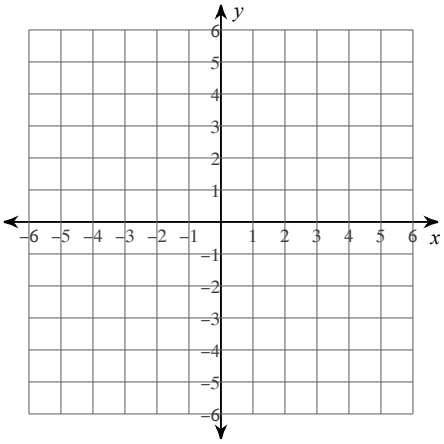
16) $2x + 5y = -3$
$y = -3$

Solve each system by elimination.

17) $9x + 7y = -20$
$6x - 7y = -25$

Sketch the graph of each linear inequality.

18) $y > 3x + 1$



Find the mode, median, mean, and standard deviation for each data set.

19) Hours Slept

7.5	5.25	7.75	6.75	7.75	7
7	9.25	6.5			

Describe the correlation, / association / relationship betweenthe two variables.

20)