Cumulative Review #020222 Name_____

Period and Class_____

Solve each equation.

1) $\frac{2+a}{3} = -4$

2) $6 = 4 + \frac{p}{5}$

3) $5(8n - 6) - 3 = -153$

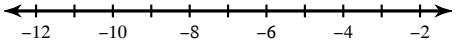
4) $\frac{|n+8|}{3} = 1$

Rewrite the given point-slope equation in slope-intercept form.

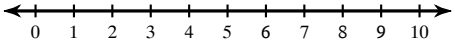
5) $y - 7 = \frac{2}{3}(x - 12)$

Solve each inequality and graph its solution.

6) $8n < -56$

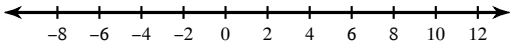


7) $-6v < -48$



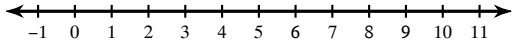
Solve each compound inequality and graph its solution.

8) $-62 \leq 8 - 7a < 50$



Solve each inequality and graph its solution.

9) $|m - 4| - 1 \geq 0$



10) Evaluate the function:
f(x) = 2x + 13 for x = 5

11) Find the value of x so that the function has the given value:
f(x) = 2x + 13 ; f(x) = -1

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

12) $(13, 12), (-18, -9)$

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

13) through: $(-3, -5)$, slope = 1

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

14) through: $(-5, 3)$ and $(-2, 1)$

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

15) through: $(3, 5)$, perp. to $y = -\frac{3}{2}x$

Solve each system by substitution.

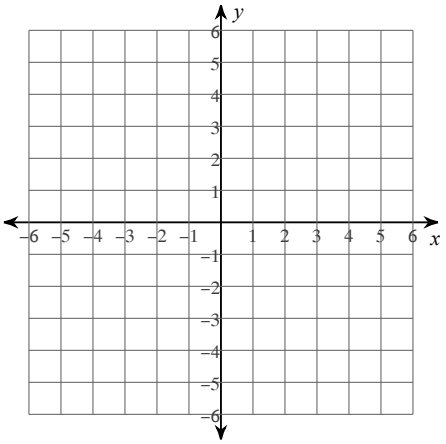
16) $2x + y = 11$
$6x - 8y = 22$

Solve each system by elimination.

17) $7x + 12y = 6$
$-x + 4y = -18$

Sketch the graph of each linear inequality.

18) $y < -\frac{1}{3}x - 1$



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

19) Age at First Job

13 13 14 16 17 17 18
21 22

Describe the distribution:

20) Educational Attainment by US State