SRHS Math 1 - Assignment #2.2b

Name_____

Period____

I. Solve each equation.

1) $2 = \frac{n}{17}$

$\{34\}$

2) $228 = 19r$

$\{12\}$

II. Solve each equation.

3) $7v - 4v = -24$

$\{-8\}$

4) $1 - 7b + 5 = 13$

$\{-1\}$

III. Solve each equation.

5) $6 + 2v = 4v - 6$

$\{6\}$

6) $-12 + 2n = n - 6$

$\{6\}$

IV. Solve each equation.

7) $-27 + 5x = 4(5 + 8x) + 7$

$\{-2\}$

8) $4(1 - 8r) = -27 - r$

$\{1\}$

V. Solve each equation.

9) $3n - 1 - 3n = -5$

No solution.

10) $0 = 8r - 8r$

{ All real numbers. }

VI. Solve each equation.

11) $7|n-1| = 49$

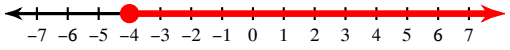
$\{8, -6\}$

12) $|5n| + 8 = 38$

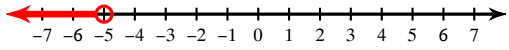
$\{6, -6\}$

VIII. Draw a graph for each inequality.

13) $x \geq -4$

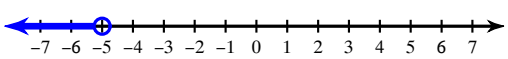


14) $n < -5$



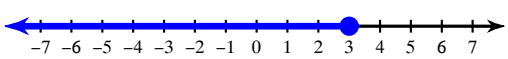
IX. Write an inequality for each graph.

15)



$r < -5$

16)



$x \leq 3$

X. Write an equation or inequality for each.

17) The difference of 3 times a number and n is 17.

$3x - n = 17$

18) One-half of a number z is less than the sum of z and 7.

$\frac{1}{2}z < z + 7$

19) Thirteen is at least five more than x squared.

$13 \geq x^2 + 5$

20) Forty-two is seven less than y.

$42 = y - 7$