

Show all work in the provided space. Box your answers. Good luck!

1.) What is 14% of 150?

2.) Solve for  $s$ :  $r = v s t - 5$

3.) Find three consecutive integers whose sum is -114.

4.) Two angles are supplementary. Find the measure of both angles if one of the angles is 102 inches smaller than the other.

In problems 5-6, solve the inequalities.

5.)  $3x - 5 > 7x + 3$

6.)  $-4x \geq \frac{10}{7}$

7.) Solve:  $2x - 6 = x - 6$

8.) Solve:  $\frac{5}{6} + x = -\frac{1}{2}$

9.) Solve:  $-3 - 2(x - 1) = -1 - 2x$

10.) Solve:  $0.2x - 2 = 0.8$

11.) Solve:  $\frac{-x}{5} = -4$

12.) Solve:  $\frac{2(y + 3)}{3} = 5 - y$

13.) Graph on a number line:

a.)  $-5 < x$

b.)  $x \leq 8$

14.) The formula for the volume of a rectangular solid is  $V = lwh$ , where  $l$  is the length,  $w$  is the width, and  $h$  is the height. Find the height of the solid if the volume is 60, the width is 1.5, and the length is 10.

15.) The number 150 is what percent of 375?