Name: _____

Date: _____

Learning Goal 6.2

I can solve inequalities.

Whether solving and equation or an inequality, the steps are the same

Presentation of the solution will be different.

Example Solve the following.

Inequalities h + 3 < 5

$$h + 3 = 5$$

$$a + 3 = 5$$

$$6.2 = x - 4.5$$

$$6.2 \le x - 4.5$$

$$2a - 5 = 2 + 3a$$

$$2a - 5 \ge 2 + 3a$$

Things get a little tricky when we move into multiplication and division.

$$12 \times (-3) \qquad 6 \times (-3)$$

$$12 \times (-2) \qquad 6 \times (-2)$$

$$12\times (-1) \qquad 6\times (-1)$$

$$12 \times (1)$$
 $6 \times (1)$

$$12 \times (2)$$
 $6 \times (2)$

$$12 \times (3)$$
 $6 \times (3)$

$$12 \div (-3)$$
 $6 \div (-3)$

$$12 \div (-2)$$
 $6 \div (-2)$

$$12 \div (-1)$$
 $6 \div (-1)$

$$12 \div (1)$$
 $6 \div (1)$

$$12 \div (2)$$
 $6 \div (2)$

$$12 \div (3)$$
 $6 \div (3)$

Example Solve each inequality. Graph the solution.

$$-5s \le 25$$

$$7a < -21$$

$$\frac{y}{-4} > -3$$

$$\frac{k}{3} \ge -2$$

$$-2.6a + 14.6 > -5.2 + 1.8a$$