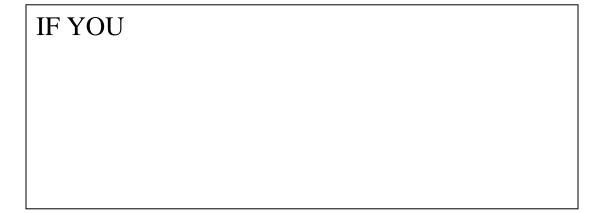## 6.2: Solve Inequalities Using Multiplication and Division
Goals:

      *Solve Inequalities Using Multiplication and Division
            - Be aware of when to reverse the inequality sign.

NEW RULE!!!!!!!!!!

IF YOU

Solve and graph each inequality:

Ex: $\dfrac{x}{4} < 5$ **Ex:** $\dfrac{x}{3} > 8$ **Ex:** $\dfrac{m}{-8} \le -2$

Ex: $\dfrac{y}{2.5} \ge -4$ **Ex:** $\dfrac{x}{-6} < 7$ **Ex:** $-3x > 24$

Ex: $\dfrac{y}{7} \ge -4$ **Ex:** $-6x \le 18$

Here are some trickier ones if you want to graph

Ex: $12 < \dfrac{x}{-4}$

Ex: $16 > \dfrac{m}{-7}$

Ex: $5v \leq -45$

Ex: $24 \geq -6n$

Ex: A student pilot plans to spend 80 hours on flight training to earn a pilot's license. The student has saved \$6000 for training. Write an inequality to represent r, the hour rate the student can afford to pay. What are the possible hourly rates?