Math 7 **Unit – Inequalities**

Switching the Inequality Symbol

By the end of this lesson you will be able to _____ .

What happens to the inequality when you divide by a negative value?

$-3x > 6$

How can you multiply a negative number by another number and end up with a positive value? Answer: _____

_____

Identify 3 values that are solutions to the inequality **x > -2** Answer: _____

_____

Why are the initial values for the inequality not solutions? Answer: _____

_____

What must you do to keep the inequality true when dividing by a negative value? Answer: _____

_____

What happens to the inequality when you multiply by a negative value?

$\frac{x}{-2} \leq -2$

How can you divide a number by a negative number and end up with a negative value? Answer: _____

_____

Identify 3 values that are solutions to the inequality $\frac{x}{-2} \leq -2$ Answer: _____

_____

Why are the initial values for the inequality not solutions? Answer: _____

_____

What must you do to keep the inequality true when multiplying by a negative value? Answer: _____

_____

Your Turn to Practice

Solve for the variable in each inequality. Make sure to switch the sign when necessary.
[Copy the problems from the video]

1)

2)

3)

4)

5)

6)