LEARNING GOAL

1. **Review:** I can solve inequalities by solving a related equation and then checking which values are solutions to the original inequality.
2. I can describe what happens when I add, subtract, multiply, or divide by the same number on both sides of an inequality.

REVIEW

Review one of your answers on the assignment from yesterday by watching one of the videos that is posted on the Distance Learning Dashboard. You can also use the links below to access the videos.

- Example 1
- Exercise 1
- Exercise 4
- Exercise 7

Resubmit any revisions that you made.

What types of operations caused the inequality symbol to change?

The inequality symbol changed when we multiplied by a negative number or we divided by a negative number.

Inequalities Investigation

Operation	Position A	Ineq. Symbol	Position B
Starting Value	2	$<$	4
Add 2	4	$<$	6
Subtract 3	1	$<$	3
Add -2	-1	$<$	1
Subtract -4	3	$<$	5
Multiply by 2	6	$<$	10
Subtract 7	-1	$<$	3
Multiply by -3	3	$>$	-9
Add 5	8	$>$	-4
Divide by 4	2	$>$	-1
Subtract 2	0	$>$	-3
Divide by -1	0	$<$	3

What types of operations cause the inequality symbol to change?

The inequality symbol changed when we multiplied by a negative number or we divided by a negative number.

Adapted from Key Curriculum Press *Discovering Algebra*