

Inequalities

~~$\times$~~   $\forall$   $\circ$

~~$\times$~~   $\exists$   $\circ$

~~$\times$~~   $\forall$   $\circ$

~~$\times$~~   $\wedge$   $\circ$

~~$\times$~~   $\exists$   $\circ$

~~$\times$~~   $\forall$   $\circ$

~~$\times$~~   $\exists$   $\circ$

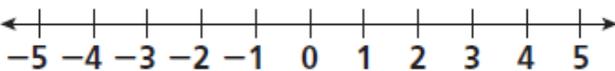
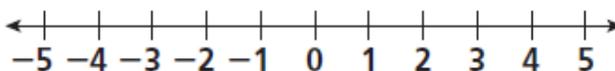
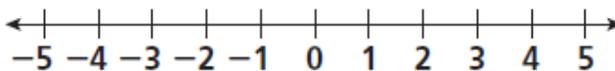
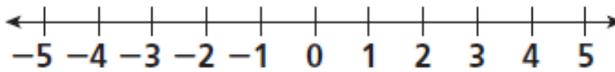
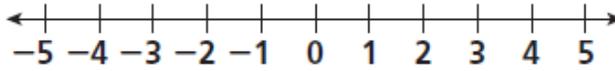
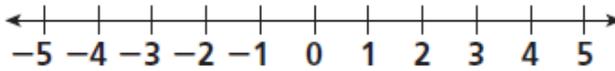
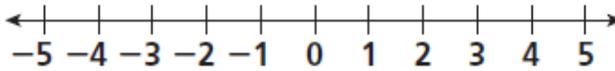
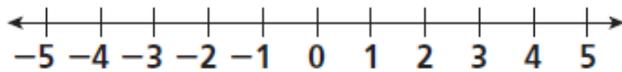
~~$\times$~~   $\wedge$   $\circ$

Inequalities



glue here • glue here • glue here • glue here

glue here • glue here • glue here • glue here



$$X < O$$

$$X > O$$

$$X \leq O$$

$$X \geq O$$

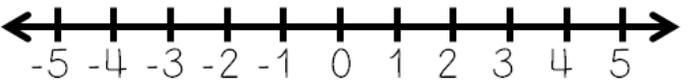
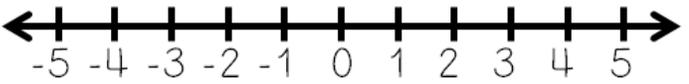
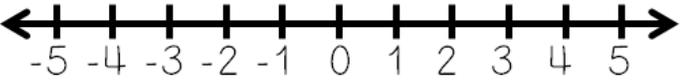
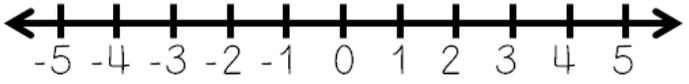
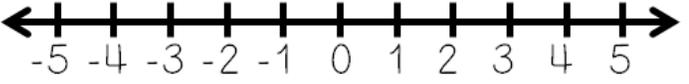
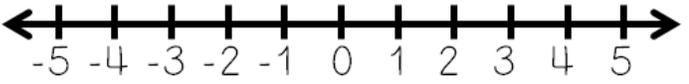
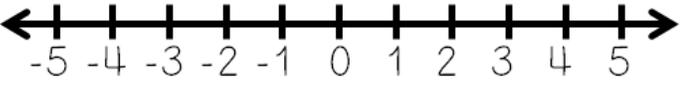
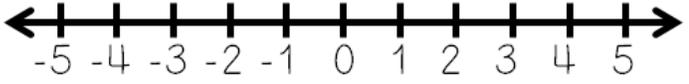
$$X < O$$

$$X > O$$

$$X \leq O$$

$$X \geq O$$

Graphing inequalities



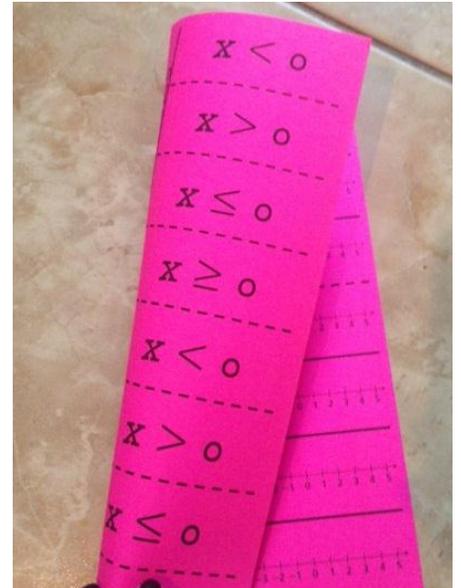
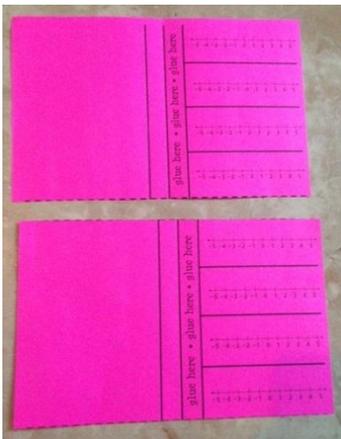
Graphing inequalities

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## Directions:

Step 1: Print the pages front to back (along the long edge, so that the page looks like this:

Step 2: Cut off the bottom of the foldable (below the dotted line). Then cut the page in half. Each page will make two foldables!



Step 3: Fold it in half ("hamburger style") so that inequalities are on the front and the number lines are inside.

Step 4: Cut along the dotted lines to make the four tabs.

I have the students write (in words), what each inequality means on the left tab. For example, on the first tab they would write "x is less than 0". Then, they graph the inequality on the number line. Either on the foldable or in their notes they will also make a note about when there is an open circle verses closed and how they know what direction to point the arrow.

