

Unit 5 Objective 2 – Remediation

Graphing Inequalities on a Number Line

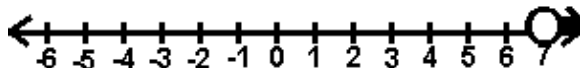
Review on graphing inequalities:

1) **Graph: $x > 7$**

First, we need to mark our number line.

Since there is no line under the symbol, x cannot equal 7, so we put an open dot above 7.

In this case, x is bigger than 7, so we draw the arrow to the right.

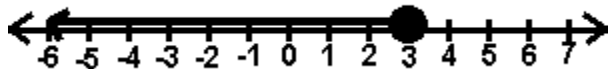


2) **Graph: $x \leq 3$**

First, we need to mark our number line.

Since there is a line under the symbol, x can equal 3, so we put a solid dot above 3.

In this case, x is smaller than 3, so we draw the arrow to the left.



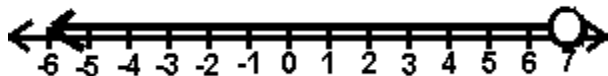
3) **Graph: $7 > x$**

First: re-write as $x < 7$

Next, we need to mark our number line.

Since there is no line under the symbol, x cannot equal 7, so we put an open dot above 7.

In this case, x is smaller than 7, so we draw the arrow to the left.

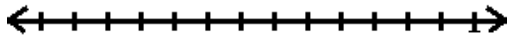


Now it's your turn!

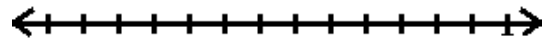
Complete the problems on the back of this worksheet

Graph each inequality on the number line provided.

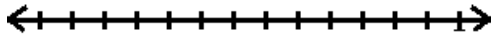
1) $-3 \leq x$



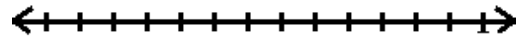
2) $x \geq 3$



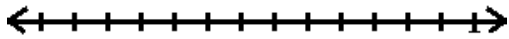
3) $-5 \leq x$



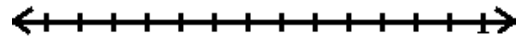
4) $2 > x$



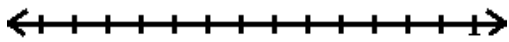
5) $x < -3$



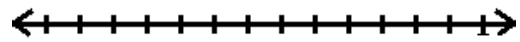
6) $-1 < x$



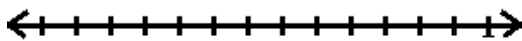
7) $x \geq -2$



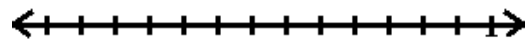
8) $x > -1$



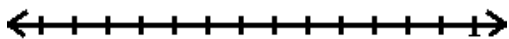
9) $x \leq -4$



10) $3 > x$



11) $x \geq 7$



12) $-3 < x$

