

Solve and plot $2x \geq 6$

1) What's the operation between 2 and x? Multiplication

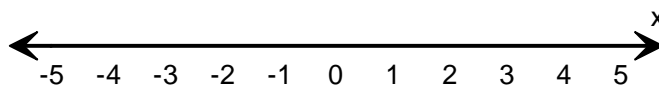
2) What's the inverse of multiplication? Division

3) Setup the division by 2 on both sides: $\frac{2x}{2} \geq \frac{6}{2}$

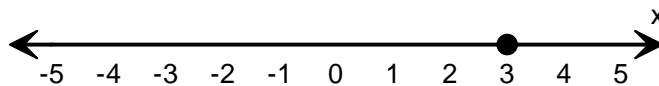
Complete the division:

$$x \geq 3$$

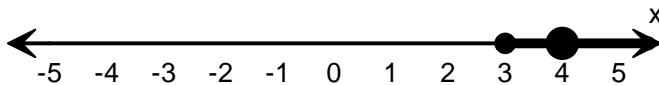
4) Draw a number line:



5) Mark $x=3$:



6) Shade to the right of 3:



7) Check by using $x=4$: $2(4) \geq 6$

$$8 \geq 6 \text{ true}$$