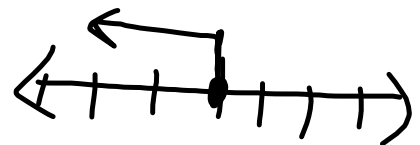


# Writing & Graphing Inequalities

Chap 2 Sect 1 Pg. 13

Write the word sentence as an inequality.

1) A number  $x$  is at most 5.



$6 \leq 5 \Rightarrow \text{false}$   
 $3 \leq 5 \Rightarrow \text{true}$

$x \leq 5$



↑   1   ↑

2) A number  $y$  added to 4 is greater than 9.

$$y + 4 > 9$$

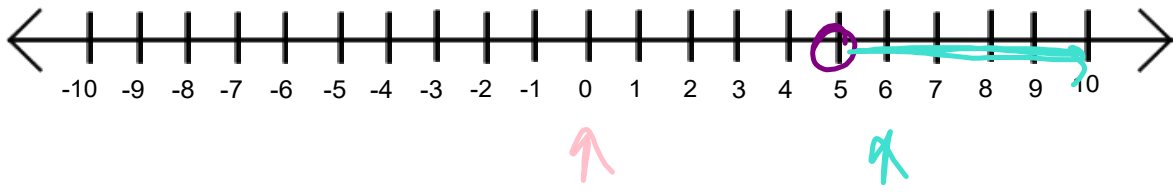
$-4$                        $-4$

$6 + 4 > 9$   
True

$0 + 4 > 9$   
False

---

$$y > 5$$



$$3. \quad c(4) < -20$$

$$(-6)(4) < -20$$

$$-24 < -20$$

True

$$\frac{4c}{4} < \frac{-20}{4}$$
$$c < -5$$

$$(0)(4) < -20$$

$$0 < -20$$

False

