

## Warm-up

① Is  $-9$  a solution for  
 $a + 7 = -2$ ?

$$-9 + 7 \stackrel{?}{=} -2$$

$$-2 = -2$$

Yes!

② Solve  $h + 12 = -8$

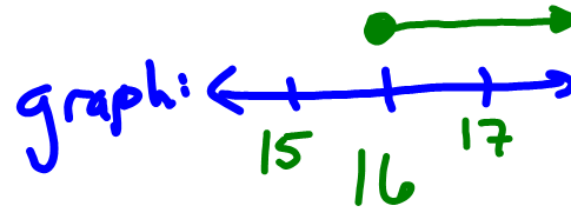
$$\begin{array}{cc} -12 & -12 \\ \hline \end{array}$$

$$h = -20$$

## 6.1 Solve Inequalities (Graph)

Need to be at least 16 to drive

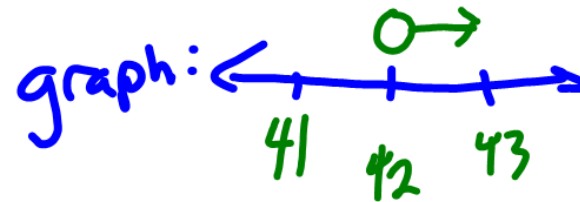
inequality:  $d \geq 16$



Must be taller than 42 inches

inequality:  $t > 42$

*greater than*




Open for  $>$  or  $<$

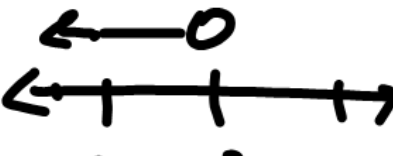
*greater than*      *less than*

Closed for  $\geq$  or  $\leq$


*greater or equal*      *less or equal*


Write the inequality

①   
 26 27  
 $S \geq 27$

②   
 -8 -7 -6  
 $G < -7$

Solve & graph

③  $X - 5 > 8$   
 $X > 13$   
  
 12 13 14

④  $4 \geq x + 3$   
 $1 \geq x$   
 $x \leq 1$   
  
 0 1 2