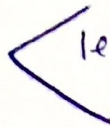
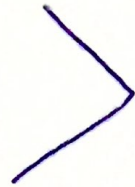



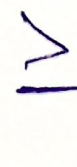
**Notes 4-5**  
**Solving Inequalities:**  
**Addition and Subtraction**




Inequalities




 less than

 Greater than

 less than or equal to

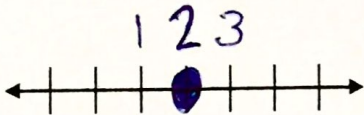
 Greater than or equal to

OPEN DOT    
  
 NOT Equal

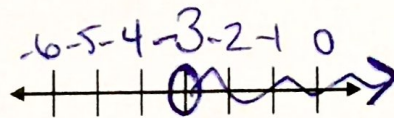
CLOSED DOT    
  
 Could be equal to

Graph the following on the number lines provided.

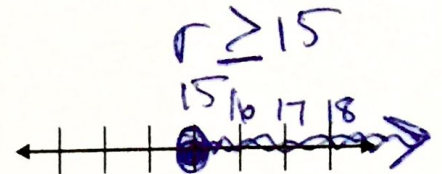
Ex. 1:  $g = 2$



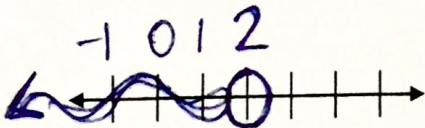
Ex. 4:  $t > -3$



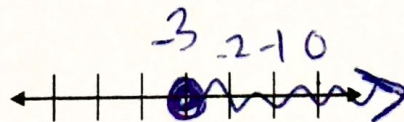
Ex. 7:  $15 \leq r$



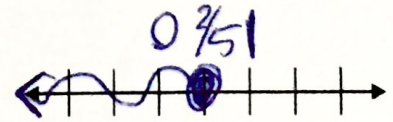
Ex. 2:  $g < 2$



Ex. 5:  $t \geq -3$

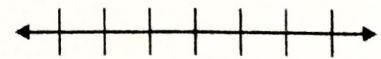
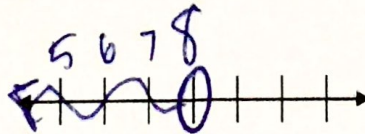
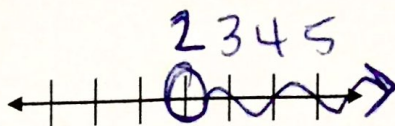


Ex. 8:  $k \leq \frac{2}{5}$



Ex. 3:  $g > 2$

Ex. 6:  $8 > r$   
 $r < 8$



Solve using inverse operations.

Ex. 9:  $x + 3 > -10$

$$\begin{array}{r|l} -3 & -3 \\ \hline x & -13 \end{array}$$

$x > -13$

Ex. 10:  $-6 \geq n + (-5)$

$$\begin{array}{r|l} +5 & +5 \\ \hline -1 & n \\ \hline -1 \geq n \end{array}$$

$n \leq -1$

Ex. 11:  $a - 3 < 8$

$$\begin{array}{r|l} +3 & +3 \\ \hline a & < 11 \end{array}$$

Solve using inverse operations and then graph on the number line provided.

Ex. 12:  $-5.4 + y \geq 7$

$$\begin{array}{r|l} +5.4 & +5.4 \\ \hline y & \geq 12.4 \end{array}$$

Ex. 13:  $a + \frac{1}{2} > 2$

Ex. 14:  $h - (-4) < 20$

$y \geq 12.4$

