Solving Inequalities Using Addition or Subtraction

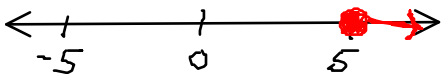
>	"Greater Than"	Shade to the right, open circle
≥	"Greater Than or Equal To" / "At Least"	Shade to the right, closed circle
<	"Less Than"	Shade to the left, open circle
≤	"Less Than or Equal To" / "At Most"	Shade to the left, closed circle

Directions: Solve each inequality and graph the solution.

1. $x + 6 \geq 11$

$-6 \quad -6$

$x \geq 5$

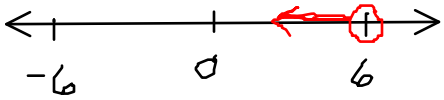


2. $-8 > m - 14$

$+14 \quad +14$

$6 > m$

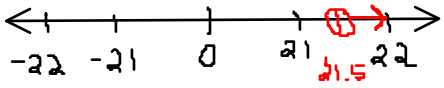
$m < 6$



3. $a - 16.2 > 5.3$

$+16.2 \quad +16.2$

$a > 21.5$



$$\begin{array}{r} 5.3 \\ +\ 16.2 \\ \hline 21.5 \end{array}$$

Directions: Write an inequality for each statement.

4. You must be at least 18 years old to attend the event.

$x \geq 18$

5. You will save up to $100 during the sale.

$x \leq 100$

6. The speed limit is 65 mph.

$x \leq 65$