Inequality

Did you know?

Expression	$2x + 7$
Equation	$3x + 4 = 9$
Inequality	$6x + 1 > 13$

Symbols

larger $>$ smaller
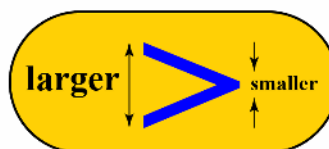
Symbol	Meaning
$>$	greater than
$\geq$	greater than or equal
$<$	less than
$\leq$	less than or equal

Example

$-3x \leq 6$

$$\frac{-3x}{-3} \leq \frac{6}{-3}$$ ditch the -3

$x \leq -2$

$2x - 5 \geq 7$
$+5 \; +5$ ditch the 5
$\overline{}$
$2x \geq 12$

$$\frac{2x}{2} \geq \frac{12}{2}$$ ditch the 2

$x \geq 6$

Assignment

Solve:

1. $2x + 5 < 9$

2. $2x + 5 > 9$

3. $9 > 2x + 5$

4. $10 > 2x + 5$

5. $10 \geq 2x + 5$

9. $5 - x \geq -10$

10. $5 - x \leq -10$

11. $5 - 5x \leq -10$

12. $6 - 5x \leq -10$

13. $-5x + 6 \leq -10$