

Solving Inequalities

Solving inequalities is similar to solving equations, but where an equation has one unique solution, an inequality has a range of solutions.

To **solve an inequality** we calculate the values that an unknown variable can be in that inequality.

 Example

$$2x + 1 < 9$$

$$\begin{array}{cc} -1 & -1 \end{array}$$

$$2x < 8$$

$$\begin{array}{cc} \div 2 & \div 2 \end{array}$$

$$x < 4$$

 Example

$$1 - 2x < 9$$

$$\begin{array}{cc} -1 & -1 \end{array}$$

$$-2x < 8$$

$$\begin{array}{cc} \div -2 & \div -2 \end{array}$$

$$x > -4$$