SOLVING EQUATIONS: One and Two Steps

In an **EQUATION** **…there is an _____ sign**

To **SOLVE** an Equation **…isolate the variable**

We can follow the steps below to solve equations

C	Clear fractions by multiplying all terms by a common denominator.
E	Expand using the distributive law to eliminate brackets
I	Isolate the variable on one side of the equation using opposite operations
D	Divide by the numerical coefficient attached to the variable

EXAMPLES Solve and check the following equations

1. a) $x+4=10$ b) $x-4=10$

2. a) $2k = 4$ b) $40 = 5k$

3. a) $2x-5=15$ b) $-x+5=15$

3. a) $\frac{2k}{5} = 4$ b) $6 = \frac{3k}{2}$

4. a) $\frac{k}{4} - 3 = 4$ b) $\frac{k}{7} - 2 = 31$

5. a) $0.25k + 2 = 6$ b) $1.2 = 0.5t - 4.8$