

Subtraction Equation

- Subtraction equation is a **mathematical operation** that involves the **subtraction operator**.
- Mathematical equation that shows two numbers being subtracted is **equal to** two other number being subtracted.
- There is an **equal sign** in between, **both side must equal the same number**.

For example,

$7 - 5 = 8 - 6$ is an example for subtraction equation.

$$7 - 5 = 2$$

$$8 - 6 = 2$$

- The numbers may be different, but after subtraction the answer will be the same.

$7 - 5 = 8 - 6$ is an example for subtraction equation.

$$7 - 5 =$$

$$8 - 6 =$$



1 2 3 4 5 6 7



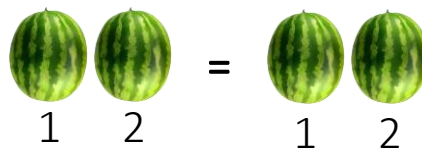
1 2 3 4 5 6 7 8



5 4 3 2 1



6 5 4 3 2 1



1 2

1 2

Both side has same answer that is 2.

$$7 - 5 = 8 - 6 = 2$$

Examples for balanced equation

1) $49 - 45 = 34 - 30$

L.H.S

$49 - 45 = ?$

$\begin{array}{r} 49 \\ - 45 \\ \hline 04 \end{array}$	$9 - 5 = 4$
$\begin{array}{r} 49 \\ - 45 \\ \hline 04 \end{array}$	$4 - 4 = 0$

$49 - 45 = 4$

R.H.S

$34 - 30 = ?$

$\begin{array}{r} 34 \\ - 30 \\ \hline 04 \end{array}$	$4 - 0 = 4$
$\begin{array}{r} 34 \\ - 30 \\ \hline 04 \end{array}$	$3 - 3 = 0$

$34 - 30 = 4$

$49 - 45 = 34 - 30 = 4$

1) $75 - 70 = 25 - 20$

$75 - 70 = 5$

$25 - 20 = 5$

$75 - 70 = 25 - 20 = 5$

3) $59 - 49 = 25 - 15$

$59 - 49 = 10$

$25 - 15 = 10$

$59 - 49 = 25 - 15 = 10$

2) $82 - 75 = 15 - 8$

$82 - 75 = 7$

$15 - 8 = 7$

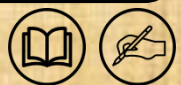
$82 - 75 = 15 - 8 = 7$

4) $92 - 81 = 53 - 42$

$92 - 81 = 11$

$53 - 42 = 11$

$92 - 81 = 53 - 42 = 11$



Example 1: Find the missing number $9 - \square = 4 - 0$

Solution :

In the left hand side, we have $9 - \square$

But In the right hand side, we have

$$4 - 0 \Rightarrow 4 - 0 \text{ equals to } 4 \Rightarrow 4 - 0 = 4$$

In a balanced equation, both left and right hand side answers will be the same.

$$\text{Therefore, } 9 - \square = 4$$

From 9, what number should be subtracted to get 4?

$$9 - 5 = 4$$

$$9 - 5 = 4 - 0$$

That is 5.

Example 2: Find the missing number $29 - \square = 45 - 35$

Solution :

In the left hand side, we have $29 - \square$

But In the right hand side, we have

$$45 - 35 \Rightarrow 45 - 35 \text{ equals to } 10 \Rightarrow 45 - 35 = 10$$

In a balanced equation, both left and right hand side answers will be the same.

$$\text{Therefore, } 29 - \square = 10$$

From 29, what number should be subtracted to get 10?

$$29 - 19 = 10$$

$$29 - 19 = 45 - 35$$

That is 19.

