Subtraction Equation

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

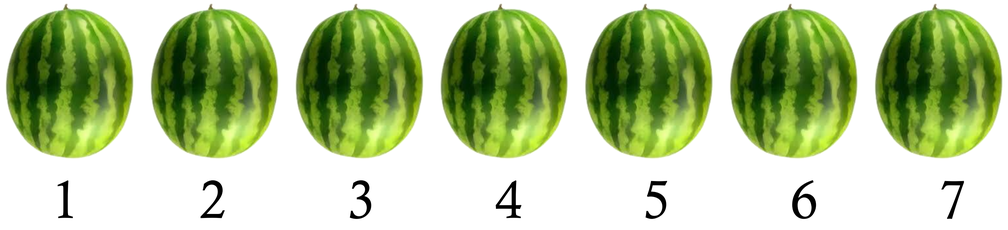
8 – 6 = 2

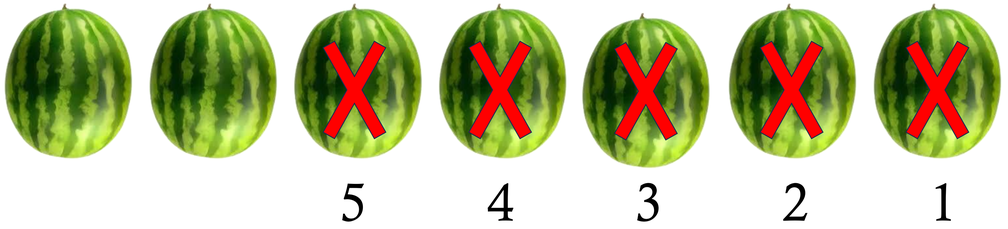
The numbers may be different, but after subtraction the answer will be the same.

This is also called balanced equation.

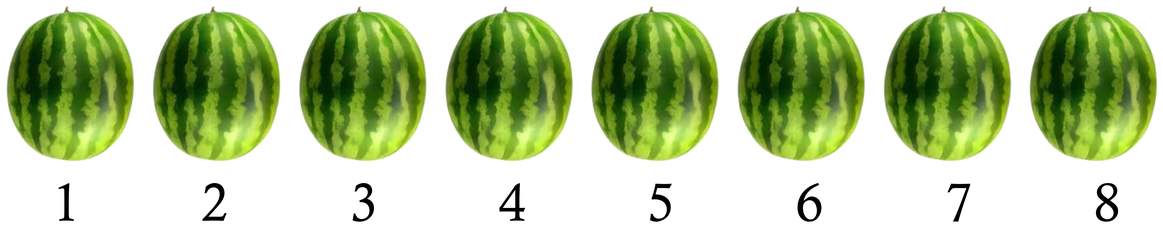
7 – 5 = 8 – 6 is an example for subtraction equation.

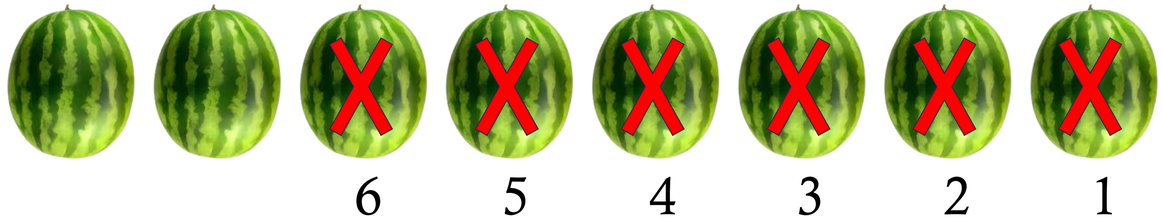
7 – 5 =

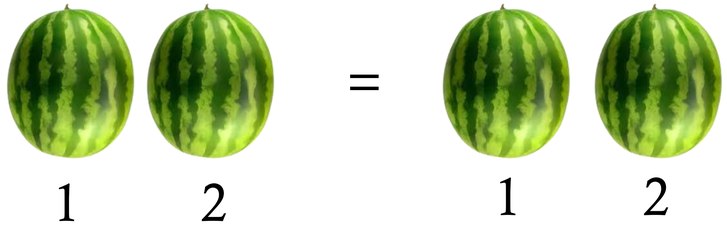




8 – 6 =





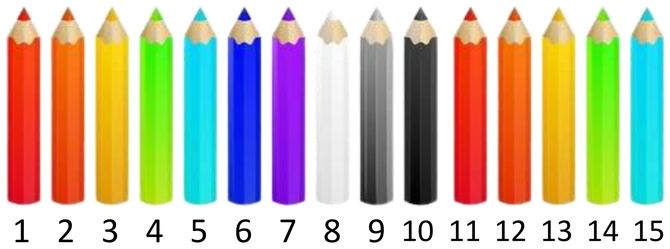


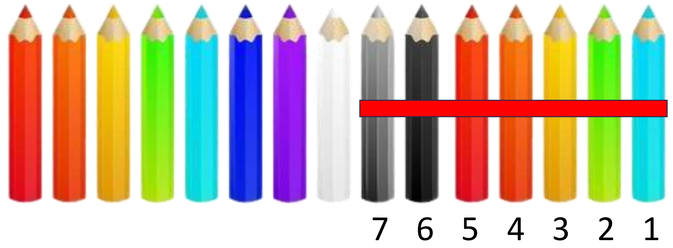
Both side has same answer that is 2.

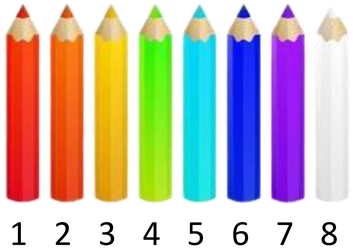
7 – 5 = 8 – 6 = 2

15 – 7 = 20 – 12 is an example for subtraction equation.

15 – 7 =

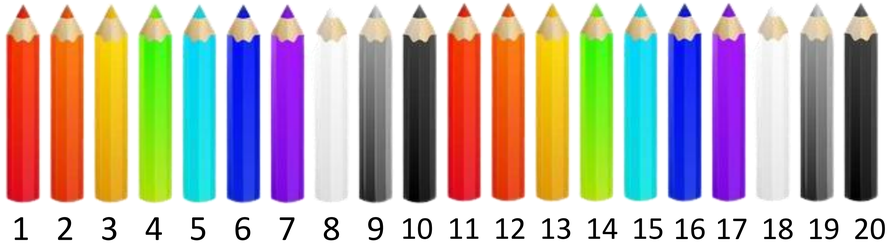


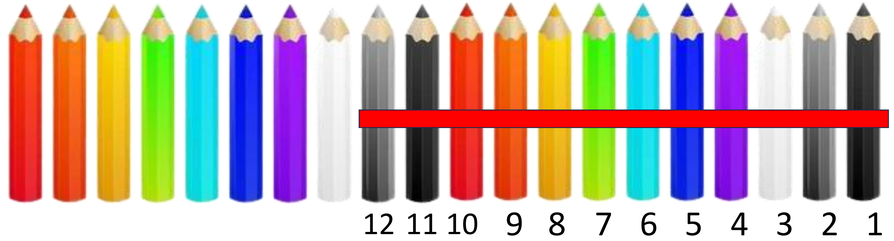


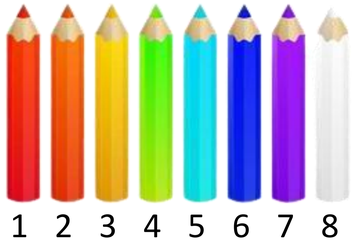


=

20 – 12 =







Both side has same answer that is 8.

15 – 7 = 20 – 12 = 8

Examples for balanced equation

1) 49 – 45 = 34 – 30

L.H.S

49 – 45 = ?

$$\begin{array}{r} 4\ 9 \\ -\ 4\ 5 \\ \hline 0\ 4 \\ \hline \end{array}$$

9 – 5 = 4

4 – 4 = 0

49 – 45 = 4

R.H.S

34 – 30 = ?

$$\begin{array}{r} 3\ 4 \\ -\ 3\ 0 \\ \hline 0\ 4 \\ \hline \end{array}$$

4 – 0 = 4

3 – 3 = 0

34 – 30 = 4

49 – 45 = 34 – 30 = 4

Examples for balanced equation

1) $75 - 70 = 25 - 20$

$75 - 70 = 5$

$25 - 20 = 5$

$75 - 70 = 25 - 20 = 5$

2) $82 - 75 = 15 - 8$

$82 - 75 = 7$

$15 - 8 = 7$

$82 - 75 = 15 - 8 = 7$

3) $59 - 49 = 25 - 15$

$59 - 49 = 10$

$25 - 15 = 10$

$59 - 49 = 25 - 15 = 10$

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

$4 - 0$ → $4 - 0$ equals to 4 → $4 - 0 = 4$

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

Therefore, $9 - \square = 4$

From 9, what number should be subtracted to get 4? That is 5.

$9 - 5 = 4$

$9 - 5 = 4 - 0$

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

$45 - 35$ → $45 - 35$ equals to 10 → $45 - 35 = 10$

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

Therefore, $29 - \square = 10$

From 29, what number should be subtracted to get 10? That is 19.

$29 - 19 = 10$

$29 - 19 = 45 - 35$