

Properties of Addition

There are two properties of addition. As we have read in class iii, one is 'order property of addition' and another is 'property of zero' in addition?



1. Order Property of Addition: We can add two or more numbers in any order and the sum remains the same.

Example: Find the sum of 23411, 24516 and 33412.

Solution: We can arrange the addends in different order as under:

$$\begin{array}{r} 23411 \\ + 24516 \\ + 33412 \\ \hline 81339 \end{array}$$

$$\begin{array}{r} 23411 \\ + 33412 \\ + 24516 \\ \hline 81339 \end{array}$$

$$\begin{array}{r} 33412 \\ + 23411 \\ + 24516 \\ \hline 81339 \end{array}$$

In this all cases, the sum is same.



2. Property of Zero in Addition: When zero is added to a number, the sum is the number itself.

Example: Add 23568 and 0.

Solution:

$$\begin{array}{r} 23568 \\ + 0 \\ \hline 23568 \end{array}$$

OR

$$\begin{array}{r} 0 \\ + 23568 \\ \hline 23568 \end{array}$$

Thus, $23568 + 0 = 23568$

or

$0 + 23568 = 23568$