



Why

We introduce language for the case in which an operation does not depend on the order in which it operates.

Definition

An operation *commutes* if the result of two elements is the same regardless of their order.

Notation

Let A be a non-empty set and let $+: A \times A \rightarrow A$ be an operation. If $+$ commutes, then

$$a + b = b + a$$

for all $a, b \in A$.

