

# DIVISION

Division is an essential concept in mathematics. It's a way to split a number into equal parts.

## A DEFINITIONS

### Definition Division

**Division** is the process of splitting a number into equal parts or groups. The  $\div$  symbol indicates division. Division can be represented in several ways:

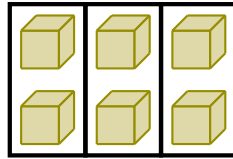
- Numbers:

$$6 \div 3 = 2$$

- Words:

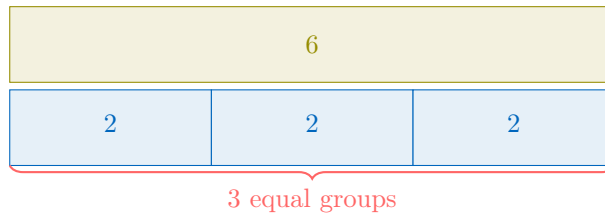
six divided by three equals two

- Items:



$6 \div 3 = 2$  : number of blocks in each group

- Part-whole model:



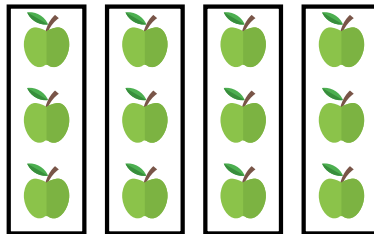
## B REPRESENTATIONS OF DIVISION

### Method Number of items in each group

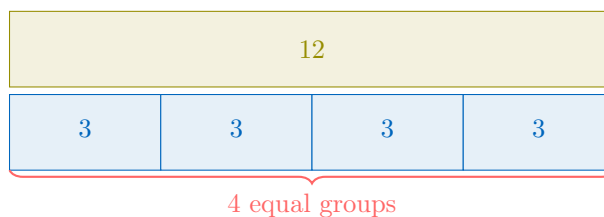
When you know the total and the number of groups, division finds the number of items in each group.

$$\text{total} \div \text{number of groups} = \text{number of items in each group}$$

For example, we have 12 apples, equally shared among 4 friends.



Each friend receives  $12 \div 4 = 3$  apples.

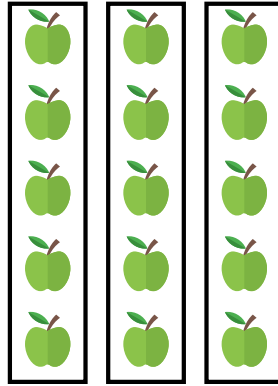


### Method **Number of groups**

If you know the **total** and the **number of items in each group**, division finds the **number of groups**.

$$\text{total} \div \text{number of items in each group} = \text{number of groups}$$

For example, we have **15** apples and pack them into boxes, each holding **5** apples.



Thus,  $15 \div 5 = 3$  is the number of boxes.