

# What is Multiplication?

Here are 2 yellow stars, 2 red stars, and 2 blue stars. To figure out how many stars we could add.

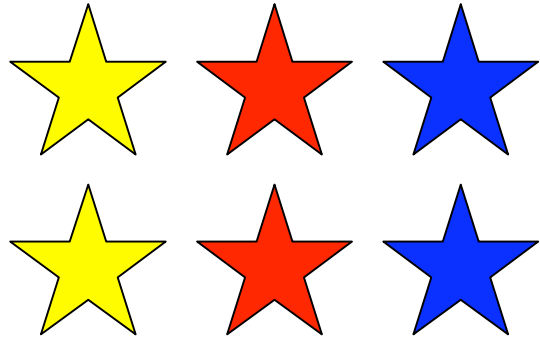
$$2 + 2 + 2 = 6 \text{ stars}$$

Because the stars are in EQUAL groups, another way to figure out how many stars would be to multiply.

3 groups of 2 can be written like this:

$$3 \times 2 = 6 \text{ stars}$$

## Example:



Multiplication is the process of finding the total number of items in equal-sized groups, or of finding the total number of items in a given number of groups when each group contains the same number of item.



Sodas come in packs of 6 cans.

How many sodas are in two packs?

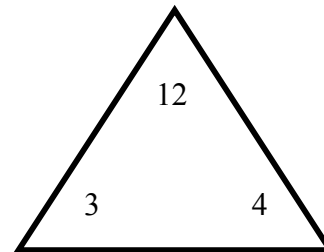


$$2 \times 6 = 12 \text{ sodas}$$

Multiplication and Division are related and can be put together in fact families. For example:

$$3 \times 4 = 12 \quad 12 \div 4 = 3$$

$$4 \times 3 = 12 \quad 12 \div 3 = 4$$



**Factors:** numbers that are multiplied

**Product:** the answer to a multiplication problem