

# Factors, Multiples and Primes



## Multiples

(think 'multipack')

If cola is sold in **multipacks of 6**, I can only buy a **multiple of 6** bottles.

The multiples of 6 are:

6  
12  
18  
24  
30  
...

(the list is literally never-ending)

Any number in the **6 times table** is a **multiple of 6**.



## Primes

Some numbers are easy to split up.

12 mars bars can be shared easily between 12 people, 6 people, 4 people, 3 people, 2 people or (if you're really greedy) 1 person.

Certain special numbers can **only** be split one way.

7 mars bars will only share between 7 people or 1 person.

Any number like this, with **exactly 2 factors**, is called a **prime number**.

## Factors

(think 'factory')

A **factory** is a place where lots of separate parts are put together to make something like a car. All of the separate things that **go into** the car are **factors**.

In maths, a **factor** is a number which **goes into** another number.

The **factors** of 6 are:

1     6  
2     3

Any number that **6 can be divided by** exactly is a **factor**.