Multiplication
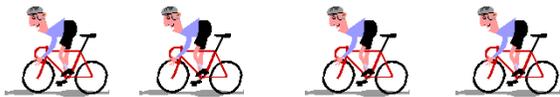
Pictorial Multiplication - adding sets

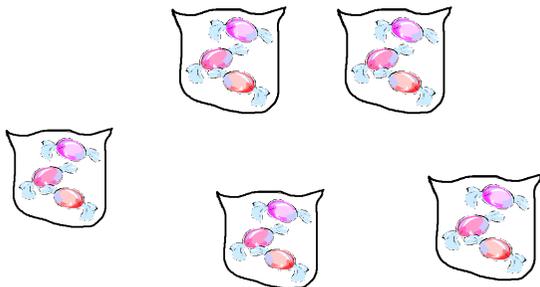2 x 4 =

A bike has two wheels. How many wheels do four bikes have?

2 + 2 + 2 + 2=

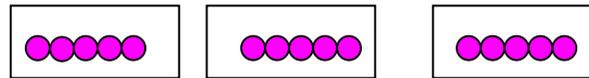There are three sweets in one bag. How many sweets in 5 bags?

3 + 3 + 3 + 3 + 3

Symbolic Multiplication

5 x 3 =

There are 5 cakes in a pack. How many cakes in 3 packs?

5 + 5 + 5
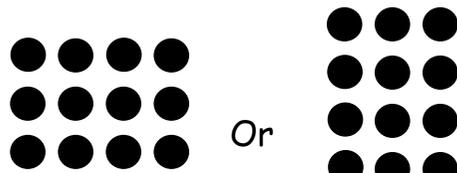
Dots or tally marks are drawn in groups. This shows 3 groups of 5.

Array Multiplication

4 x 3 =

A chew costs 4p. How much do 3 chews cost?

Or
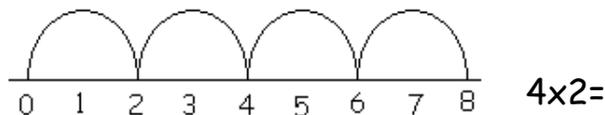
3 x 4 = 12   4 x 3 = 12

This helps to **develop the understanding that 4x3 is the same as 3x4.**

Jumps forward on a number line

0 1 2 3 4 5 6 7 8   4x2=

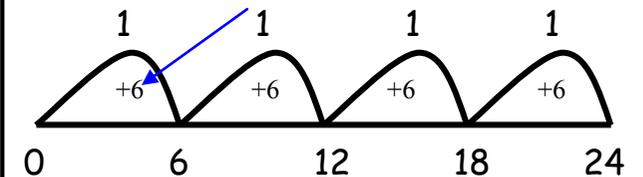## Blank number line Multiplication (numbered then empty)

6 x 4 =

There are 4 cats. Each cat has 6 kittens. How many kittens are there altogether?

The 1 used to show 1x6

1   1   1   1
+6   +6   +6   +6
0   6   12   18   24

Count on in **equal steps**, recording each jump on an **empty number line**. This shows 4 jumps of 6.

Partitioning Multiplication

13 x 5 =

10 x 5 = 50

3 x 5 = 15

30 + 15 = 65

Keep place value