

# Helping your child with Maths: MULTIPLICATION



## Stage 1: Practical Repeated Addition



$$2 + 2 + 2 + 2 = 8$$

$$4 \times 2 = 10$$

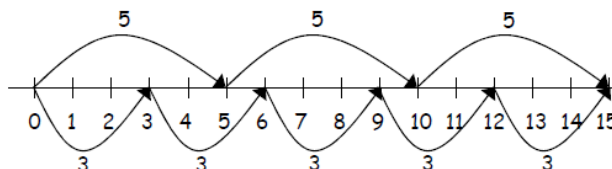
2 multiplied by 4

4 lots of 2

Children use apparatus to repeatedly add sets of objects together. This gets them ready to then multiply numbers using a number line to multiplying numbers without the need for objects.

## Stage 2: Arrays and Number Lines

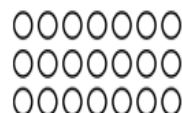
Children should know that  $3 \times 5$  has the same answer as  $5 \times 3$ . This can also be shown on the number line.



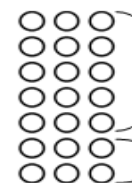
$$2 \times 3 = 6$$



$$4 \times 3 = 12$$



$$7 \times 3 = 21$$



$$3 \times 7 = 21$$

Children will use number lines to multiply numbers. They can make repeated jumps on a number line to solve multiplication calculations. Children will also draw arrays to represent multiplication calculations. This is the next step from repeated addition with objects and also helps children to understand how numbers can change around in a multiplication calculation but you still get the same answer (similar to addition).