Multiplying With Alternative Strategies

Now that we have a solid grasp on the concept of multiplication it is time for us to learn new strategies. These strategies will help us become more **efficient** and **precise** mathematicians so that we can use our skills more easily.
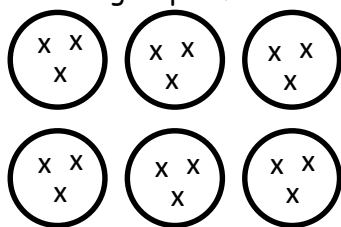
Vocabulary	
Equal Groups	A model that shows a number of groups each containing an equal quantity.
Repeated Addition	Using a number line to add a number to itself a given number of times.
Factors	Any number multiplied with another number to find a product.
Product	The solution of a multiplication equation.

How do I multiply with Equal Groups?

Using equal groups to multiply is a very efficient process. Look at the equation below.

$$6 \times 3 = \rule{3cm}{0.4pt}$$

groups of

Solve the following equations using Equal Groups.
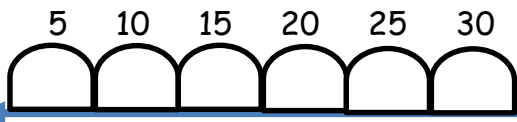
$$4 \times 4 = \rule{1cm}{0.4pt}$$

$$7 \times 2 = \rule{1cm}{0.4pt}$$

How do I multiply with Repeated Addition?

Repeated Addition is also a great method for solving multiplication equations.

$$5 \times 6 = \rule{3cm}{0.4pt}$$

Added to itself

5   10   15   20   25   30

Solve the following equation using Repeated Addition.

$$10 \times 6 = \rule{1.5cm}{0.4pt}$$

Solve this column of equations with equal groups.

7 x 7 = _____

3 x 6 = _____

8 x 3 = _____

9 x6 = _____

Solve this column of equations with repeated addition.

4 x 5 = _____

2 x 9 = _____

7 x 10 = _____

8 x 5 = _____