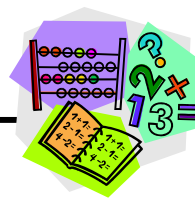


Multiplying Whole Numbers



Many strategies can be used to multiply numbers, such as

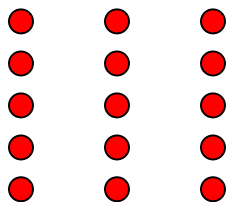
1. paper and pencil
2. Base 10 blocks (manipulatives)
3. grids and geoboards.

Whatever method you use, it is important to understand the process of multiplication.

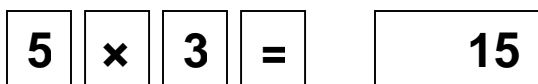
Example

The head chef of a classy restaurant was asked to prepare meals for 3 groups of 5 customers each. How many meals will he have to prepare in total?

The diagram shows 3 groups of 5.



Entering $5 \times 3 =$ on a calculator displays the answer 15.



The **product** is the answer to a multiplication question.

$$\text{MULTIPLICAND} \times \text{MULTIPLIER} = \text{PRODUCT}$$

Which is the same as:

$$\text{FACTOR} \times \text{FACTOR} = \text{MULTIPLE}$$

The position of the factors can be changed without changing the answer.

$$\begin{array}{l} \text{E.g. } 5 \times 3 = 15 \\ \quad 3 \times 5 = 15 \end{array}$$