



# St John Fisher RC Primary School

## Year 3 Maths Knowledge Organiser

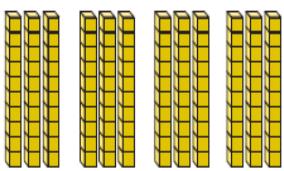
### Spring Term One – Multiplication and Division (2)

#### Related Calculations

$$3 \times 4 = 12$$



$$30 \times 4 = 120$$



#### M4: Multi Boing!

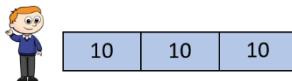
$$\begin{array}{ccc} 10 \times 5 & & 5 \times 5 \\ \hline 0 & 50 & 75 \\ 10 \times 5 = 50 & & 5 \times 5 = 25 \\ 15 \times 5 = 75 & & \end{array}$$

#### M4a: Partitioning

$$\begin{array}{c} 15 \times 5 = 75 \\ 10 \times 5 = 50 \\ 5 \times 5 = 25 \\ 50 + 25 = 75 \end{array}$$

Annie has 10 snowballs.

Ron has three times as many snowballs as Annie.



Ron has 30 snowballs.

#### Key Vocabulary

##### Multiply

Combining multiple groups of numbers together e.g.  $5 \times 5 = 25$ .

##### Divide

Distributing a group of things into equal parts

##### Multiple

The product of two numbers (multiplying 2 numbers together).

##### Factor

A number that divides exactly into another number without leaving a remainder.

##### Product

The answer when you multiply 2 numbers together.

##### Remainder

An amount left over after division (happens when the first number does not divide exactly by the other).

##### Lots of

Finding the amount of combined groups e.g. 5 lots of 5 is 25.

##### Groups of

Finding the amount of combined groups e.g.  $25 = 5$  groups of 5.

##### Commutative

When 2 multiplied numbers give the same answer no matter what order they are in e.g.  $2 \times 5 = 10$  and  $5 \times 2 = 10$ .

##### Inverse

Something that is the opposite (e.g. addition is the opposite of subtraction).

##### Scaling

Scaling is when you are given information about something and then have to apply it to a smaller or larger quantity. E.g. making an amount twice as big.

#### Assessment