



# Knowledge Organiser



## Number

### Year 2

### Multiplication and Division

It is important that we learn our multiplication and division facts and are able to quickly recall them. Knowing the facts for the 2-, 5- and 10-times tables will help us learn other times tables and understand new concepts in the future, such as fractions.

#### Builds from Year 1:

Counting in 2s, 5s and 10s.  
Making equal groups and arrays.  
Doubles.

#### This year:

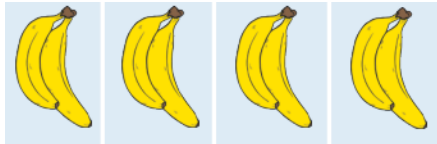
Multiplication and division facts for the 2, 5 and 10 multiplication tables.  
Solve problems using arrays, repeated addition and multiplication and division facts.

#### Leads to Year 3:

Multiplication and division facts for the 2, 5 and 10 multiplication tables.  
Written methods for multiplication.  
Divide 2-digit numbers.

## Multiplication and Division Facts

### 2 Times Table



$$4 \text{ lots of } 2 = 8$$

$$4 \times 2 = 8$$



### 5 Times Table



$$9 \text{ lots of } 5 = 45$$

$$9 \times 5 = 45$$



### 10 Times Table



$$6 \text{ lots of } 10\text{p} = 60\text{p}$$

$$6 \times 10 = 60$$



### Arrays



$$4 \text{ rows of } 10 = 40$$
$$10 \text{ columns of } 4 = 40$$

Multiplication can be done in any order (commutative).

$$4 \times 10 = 40$$

$$10 \times 4 = 40$$

### Equal Groups

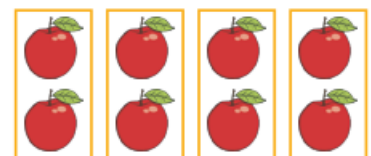


5 equal groups with 3 in each group



2 equal groups with 4 in each group

### Repeated Addition



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



$$10 + 10 + 10 + 10 = 40$$

## Key Vocabulary

equal groups    lots of    arrays    repeated addition    multiplication    times  
tables    inverse    commutative    division