



YEAR 2 - MATHS- MULTIPLICATION AND DIVISION KEY KNOWLEDGE ORGANISER

Key Vocabulary	
multiplication	
division	
double	
half	
equal	
unequal	
group	
sharing	
array	
odd	
even	
commutative	
repeated addition	

Grouping

We need to put the bikes in **groups** of 4. There are 12 bikes altogether. There are 4 bikes in each group. There are 3 groups.

$$12 \div 4 = 3$$

Sharing

6 apples altogether. There are 3 bowls. There are 2 apples in each bowl.

$$6 \div 3 = 2$$

Recognise Equal Groups

2 equal groups with 3 in each group

4 equal groups with 4 in each group

Making Equal Groups

4 equal groups

Add Equal Groups

$$2 + 2 + 2 + 2 = 8 \text{ oranges}$$

Using Arrays

3 rows of 5 = 15
 $3 \times 5 = 15$

5 columns of 3 = 15
 $5 \times 3 = 15$

The Multiplication Symbol

$4 \times 2 = 8$
 $2 \times 4 = 8$

$3 \times 2 = 6$
 $2 \times 3 = 6$

The Two Times Table

0 2 4 6 8 10 12 14 16 18 20

The Five Times Table

0 5 10 15 20 25 30 35 40 45 50

The Ten Times Tables

0 10 20 30 40 50 60 70 80 90 100

PROBLEM SOLVING

Divide by 2

There are 6 cubes. There are 3 in each group. There are 2 groups.

$$6 \div 2 = 3$$

$$3 \times 2 = 6$$

Divide by 5

There are 15 cubes. There are 5 groups. There are 3 in each group.

$$15 \div 5 = 3$$

$$3 \times 5 = 15$$

Divide by 10

Apples come in packs of 10. There are 30 apples. There are 10 in each pack. There are 3 packs.

$$30 \div 3 = 10$$

$$10 \times 3 = 30$$

Remember you can use both sharing and grouping to divide.

Odd and Even Numbers

Odd	Even
1 3 5 7	2 4 6 8

An even number of objects can be shared equally between 2 groups. An odd number of objects cannot. Even numbers are also in the 2 times table.

Odd: 1 left

Even

Would you rather have 3 boxes with 10 biscuits in or 5 boxes with 5 biscuits in? Explain your reasoning.

Would you rather have 4 trays with 5 apples in or 2 trays with 10 apples in? Explain your reasoning.

