



KNOWLEDGE ORGANISER

Year 1

## Multiplication & Division

### What I should already know:

Recognise how doubles can be arranged in a 10-frame

Understand that two equal groups can be called a 'double' and connect this to finger patterns  
Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

### What I should know by the end of this unit:

Count in 2s, 5s and 10s

Make and add equal groups

Make arrays

Make doubles

Share into equal groups

## Vocabulary

repeated addition

A number added to itself.  
 $5 + 5 + 5 =$

array

A set of items arranged in rows and columns.

row

A set of items in a line from left to right.

column

A set of items in a line from top to bottom

share

To share objects into equal groups.

group

To divide objects into equal groups.

equal  
equal groups

The same.

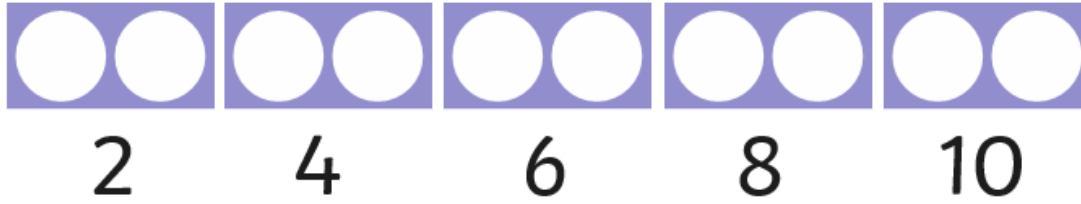
double

Twice as much, multiplied by 2.

Continue colouring in 2s on the grid.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

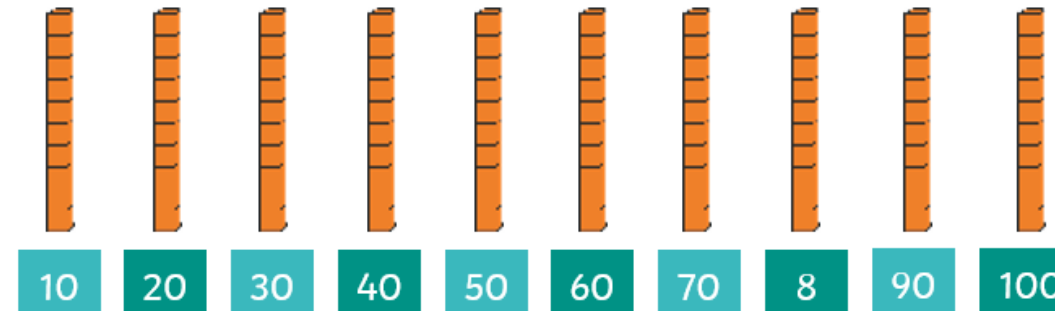
### Count in 2s



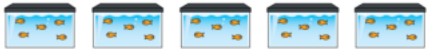
### Counting in 5s



### Count in 10s

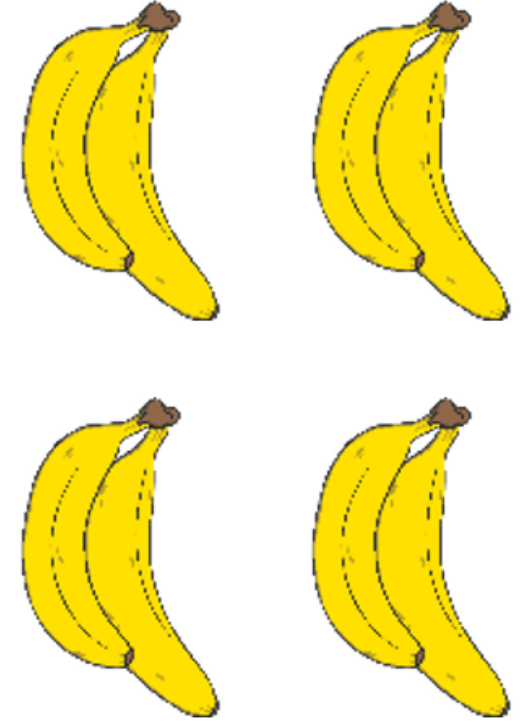


How many fish are there?



—

### Make Equal Groups



There are 4 equal groups of 2 bananas.

Use a 0-100 bead string to count in tens.  
Can we count forwards and backwards in tens?



How many wheels altogether?



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

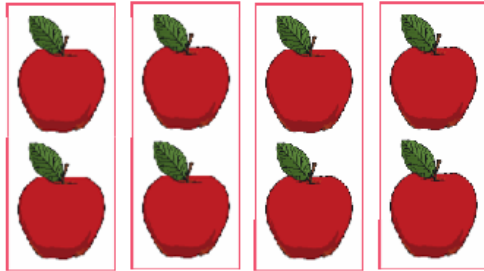
How many fingers altogether?



$$5 + 5 + 5 =$$

Array	Description - columns	Description - rows	Totals
	5 columns 2 cookies in each column	2 rows 5 cookies in each row	$2 + 2 + 2 + 2 + 2 = 10$ $5 + 5 = 10$

### Add Equal Groups



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

### Make Arrays



4 rows of 5 = 20 cookies

5 columns of 4 = 20 cookies

### Make Doubles



Double 1 is 2

$$1 + 1 = 2$$

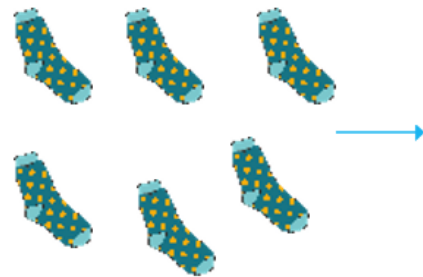


Double 5 is 10

$$5 + 5 = 10$$

### Group Equally

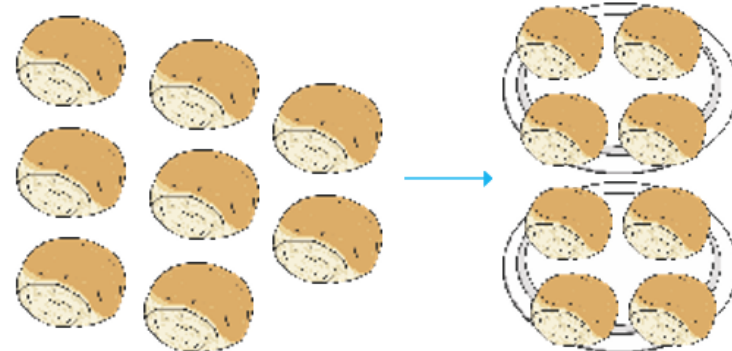
Put the socks into groups of 2.



There are 6 altogether.  
There are 3 equal groups of 2.

### Share Equally

Share the buns equally between the 2 plates



8 buns shared equally between 2 plates is 4.