

### In this unit, I will:

- understand about equal and unequal groups
- use and recognise arrays
- count in 2s, 5s and 10s
- understand what x mean in a multiplication sentence
- use repeated addition and understand how this relates to multiplication
- solve problems involving the 2, 5 and 10 times tables

### In this unit, you will

- look at a number of important multiplication and division methods and skills
- gain a more solid understanding of equal groups.

### National Curriculum Link - Year 2 multiplication and division

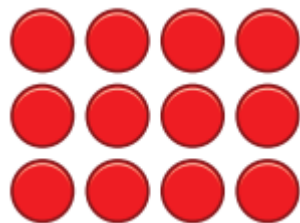
- Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.
- Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs.
- Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers

### ★ Odd and Even Numbers Chart

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
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

This array shows  $3 \times 4 = 12$ .  
It also shows  $3 \times 4 = 12$

### Array:



## Year 2 - multiplication and division



5 equal groups with 3 in each group



2 equal groups with 4 in each group



4 equal groups of 10



6 equal amounts of 5 pence

We use these a lot, don't we?  
You can use a number line for multiplication as well. Can you find  $4 \times 5$  using the number line?

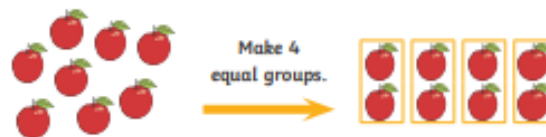
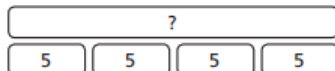


### Bar model:

A comparison bar model that compares two amounts.



An equal parts bar model that displays a whole as a certain amount bigger than one part.

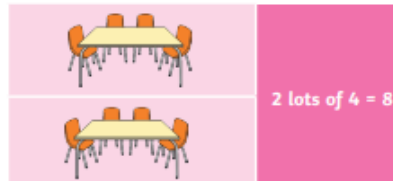


Make 4 equal groups.

### Add Equal Groups



### The Multiplication Symbol



### Use Arrays



4 rows of 10 = 40  
10 columns of 4 = 40

groups	A number of objects in one place
equal groups	The same number of objects in each group
lots of	Another way of saying groups of. There are 6 lots of 2.
arrays	An arrangement of objects, pictures, or numbers in rows and columns
repeated addition	Adding equal groups together ( $2+2+2+2=8$ )
multiplication	Multiplying a number by another. $6 \times 2 = 12$
times tables	The multiples of a numbers in order

### The 2 Times Table



6 lots of 2 = 12

2	4	6	8	10	12	14	16	18	20	22	24
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### The 5 Times Table



9 lots of 5 = 45

5	10	15	20	25	30	35	40	45	50	55	60
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### The 10 Times Table



7 lots of 10p = 70p

10	20	30	40	50	60	70	80	90	100	110	120
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Maths at Alice Ingham



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