

# Unit 6 Multiplication and division 2



- In this unit we will ...
- ✂ Divide by 2
  - ✂ Learn about odd and even numbers
  - ✂ Divide by 5 and 10
  - ✂ Divide by grouping and by sharing
  - ✂ Use related multiplication facts to solve division problems

You have used equal sharing before. How would you share 6 🍓 between 2 people?



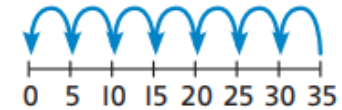
## KEY LANGUAGE

There is some key language that children will need to know as part of the learning in this unit:

- ➔ divide, division, the division sign ( $\div$ )
- ➔ share
- ➔ group
- ➔ odd, even
- ➔ times-tables
- ➔ equal groups, number of equal groups

## STRUCTURES AND REPRESENTATIONS

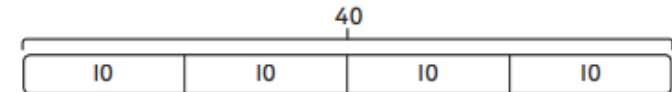
**Number line:** This model helps children visualise the repeated subtraction strategy to work out a division fact. Show a number line with equal jumps going back to 0. The number of jumps is the missing part of the division sentence.



**100 square:** Once highlighted, this model helps make generalisations about which numbers are divisible by which numbers. It also highlights odd and even numbers.

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

**Bar model:** To represent equal groups, the parts of the bar model must be an equal width and labelled the same amount. The total should be written on top.



# Unit 7 Statistics



In this unit we will ...  
 ✦ Make tally charts  
 ✦ Use pictograms  
 ✦ Use block diagrams  
 ✦ Solve word problems

We will need to use tally charts.  
 How many of each animal is there?



## KEY LANGUAGE

There is some key language that children will need to know as part of the learning in this unit:





- tally chart, tally
- pictogram
- block diagram
- table
- more, less, most, least
- favourite, popular
- equal
- represent, symbol, key, information
- total, altogether
- compare

## STRUCTURES AND REPRESENTATIONS

### Tally charts

Tariq	Amy
means 5	

### Pictograms

Name	Number
Tariq 	
Amy 	

### Block diagrams

8				
7				
6				
5				
4				
3				
2				
1				
	Izzy	Joe	Matt	Abbie

Representations such as number lines, apparatus and bar models may be used to support the interpretation of data or solving problems.

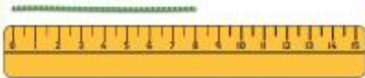
## Unit 8 Length and height



In this unit we will ...

- ✦ Measure objects in centimetres and metres
- ✦ Compare two lengths
- ✦ Put lengths in order
- ✦ Solve word problems about length

We will be using rulers.  
How long is this piece of string?



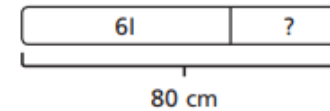
### KEY LANGUAGE

There is some key language that children will need to know as part of the learning in this unit:

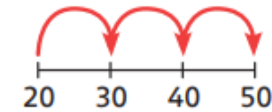
- length, height
- width, distance
- long, longer, short, shorter
- tall
- metres (m), centimetres (cm)
- order, compare
- ruler, metre stick
- measure
- zero
- greater than (>)
- less than (<)
- equal to (=)

### STRUCTURES AND REPRESENTATIONS

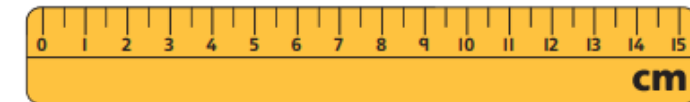
#### Bar model



#### Number lines



#### Rulers



## Unit 9

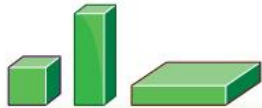
### Properties of shapes



In this unit we will ...

- ⚡ Recognise 2D and 3D shapes
- ⚡ Count the sides and vertices on 2D shapes
- ⚡ Learn about symmetry
- ⚡ Count the faces, edges and vertices on 3D shapes
- ⚡ Sort 2D and 3D shapes

How are these shapes similar?  
How are they different?



### KEY LANGUAGE

There is some key language that children will need to know as part of the learning in this unit:

- circle, semicircle
- oval, triangle, square, rectangle, quadrilateral
- polygon, pentagon, hexagon, octagon
- sphere, hemisphere
- cone, ovoid, cylinder
- triangle-based pyramid, square-based pyramid, pentagon-based pyramid, hexagon-based pyramid
- cube, cuboid
- triangular prism, pentagonal prism, hexagonal prism
- 2D, 3D
- properties
- side, vertex, vertices, edge, face
- pattern
- symmetry, symmetrical, line of symmetry
- curved surface

## Unit 10 Fractions



In this unit we will ...

- ⚡ Learn about the whole and equal parts
- ⚡ Recognise and find a half
- ⚡ Recognise and find a quarter
- ⚡ Learn about unit fractions
- ⚡ Count in halves and quarters

What is half of 6?

You can use ○ to help.



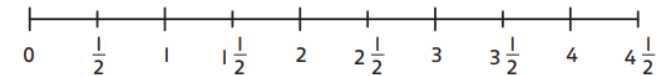
### KEY LANGUAGE

There is some key language that children will need to know as part of the learning in this unit:

- fraction
- half ( $\frac{1}{2}$ ), quarter ( $\frac{1}{4}$ ), third ( $\frac{1}{3}$ )
- whole
- part, equal part
- numerator, denominator
- fraction bar
- unit fraction, non-unit fraction
- equivalent
- three-quarters ( $\frac{3}{4}$ )
- equal
- divided by ( $\div$ )
- odd, even
- share
- pattern

### STRUCTURES AND REPRESENTATIONS

**Fraction number line:** This model will help children recognise patterns when counting in fractions and will help them to practise counting up or down in halves.



**Part whole model:** This model has been used before and is now used to show the partition of a mixed number. For example,  $2\frac{1}{2}$  is partitioned into 2 and  $\frac{1}{2}$ .

