

Key vocabulary:

2-D 3-D Symmetry (Circle, square, triangle, pentagon, hexagon, sphere, pyramid, cube, cuboid etc) Half / halves Quarter / quarters Third / thirds Fractions of amounts	Time Chronological order Before After Next First Hour Half past Minutes Seconds	Long Short Tall Length Height Position Direction Whole/half/quarter/three quarter turns
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Curriculum Objectives

Measurement

- Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
- Compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$.

Measurement: Time

- Compare and sequence intervals of time
- Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times
- Know the number of minutes in an hour and the number of hours in a day

Shape

- Identify and describe the properties of 2-D shapes, including the number of sides and line of symmetry.
- Identify and describe the properties of 3-D shapes, including number of edges, vertices and faces.
- Identify 2-D shapes on the surface of 3-D shapes.
- Compare and sort common 2-D and 3-D shapes.

Fractions

- Recognise, find, name and write fractions and of a length, shape, set of objects or quantity.
- Write simple fractions for example $\frac{1}{2}$ of $6 = 3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

Position and Direction

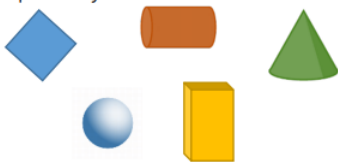
- Order and arrange combinations of mathematics objects in patterns and sequences.
- Use mathematical vocabulary to describe position, direction and movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise)

Examples

For more information, please see the Calculation Policy on the school website.

Which shape is the odd one out?

Explain why.



Complete the table.

Name	Shape	Number of sides
Pentagon		
Rectangle		
Square		
Triangle		
Hexagon		

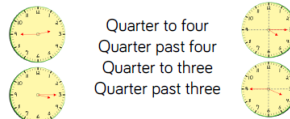
Use counters, cubes, or bar models to help you fill in the blanks:

$\frac{1}{4}$ of 24 = <input type="text"/>	$\frac{1}{4}$ of 4 = <input type="text"/>	$\frac{1}{4}$ of <input type="text"/> = 5
$\frac{2}{4}$ of 24 = <input type="text"/>	$\frac{3}{4}$ of 4 = <input type="text"/>	$\frac{3}{4}$ of <input type="text"/> = 15
$\frac{3}{4}$ of 24 = <input type="text"/>	$\frac{1}{4}$ of 8 = <input type="text"/>	$\frac{1}{4}$ of <input type="text"/> = 2
$\frac{4}{4}$ of 24 = <input type="text"/>	$\frac{3}{4}$ of 8 = <input type="text"/>	$\frac{1}{4}$ of 8 = 6



Look at the clocks. Discuss how the minute hand has travelled. Identify the time is quarter past the hour and quarter to the hour. Give the children individual clocks with moveable hands and ask them to make quarter to/past times.

Match the clocks to the correct time.



Quarter to four
Quarter past four
Quarter to three
Quarter past three

Shade $\frac{1}{4}$ of each shape.



Circle the shapes that have a quarter shaded.



Which shapes do not have a quarter shaded? How do you know?

Can you draw the shapes again and split into quarters correctly?

Match the events to the approximate times they happen. Can you show the time on your clock?

Half past 8	Lunchtime
10 o'clock	Walk to school
12 o'clock	Home time
Half past 3	Playtime

Complete the table.

5 o'clock	
Half past 4	
1 o'clock	

What time is it?



e.g. How long is the pen to the nearest centimetre?



How tall is the glass?

What other objects can you find to measure the height of?



Draw a line that is:

- 5 centimetres long
- 8 centimetres long
- Longer than 4 centimetres but shorter than 7 centimetres.



Maths Knowledge Organiser for Year 2

Term: Summer

