

ANSWERS

Challenge 1: Using the Dictionary

- adjacent
 - bearing
 - quadrant
 - quadrilateral
 - sequence
 - set
 - shallow
 - share
 - yard
 - year
- decrease, percent, reduction
 - denominator, fraction
 - horizontal, vertical

Challenge 2: Fractions

- $\frac{1}{2}$
 - $\frac{1}{4}$
 - $\frac{1}{8}$
 - $\frac{2}{4}$
 - $\frac{3}{8}$
 - $\frac{1}{2}$ and $\frac{2}{4}$
- 2 slices
 - 4 cupcakes

Challenge 3: 2D and 3D Shapes

- Shapes b, e and f should be circled.

 - octagon
 - pentagon
 - hexagon
 - octagon
 - pentagon
 - pentagon
 - hexagon
- 3D = sphere
 - 3D = cube
 - 3D = pyramid

Children should then be able to explain their choices by describing the properties of the shapes.

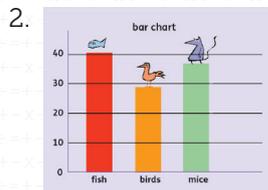
Challenge 4: Measuring Units

Mass	Capacity	Length	Time
grams kilograms tonnes	litres millilitres	metres centimetres	minutes seconds hours

- metres and centimetres
 - seconds

Challenge 5: Handling Data

- pictogram
 - line graph
 - block graph
 - pie chart
 - column graph

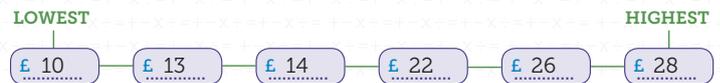


Super Challenge 1: Using the Dictionary

- bar-line graph, bar graph, block graph, column graph, line graph (other types of graph not listed in the dictionary should also be accepted)
- lines, curves, angles and shapes
- 1000 grams
- 8 pints
- The percentage of children's favourite sports

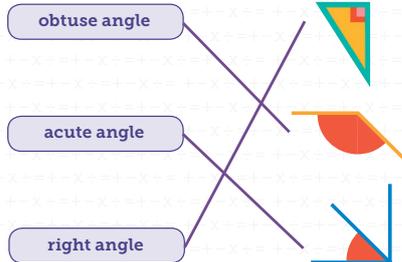
Super Challenge 2: Decimals

- £22
 - £10
 - £14
 - £28
 - £13
 - £26



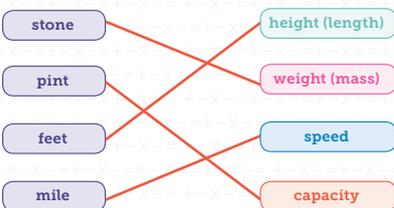
- 267 centimetres
 - 495 cm
 - 350 cm

Super Challenge 3: Angles

- 
 - 90°
 - 150°
 - 45°

- The waves are **parallel**.
 - The calculators are **parallel**.
 - The cubes are **perpendicular**.

Challenge 4: Measures and Time

- 
 - 2.30pm
 - 5.15 (accept am or pm)
 - 4.05 (accept am or pm)
 - 11.15pm

Super Challenge 5: Averages

- The mode is 15
 - The median is 10
 - The mean is 10
 - The range is 20