

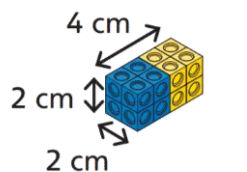
Key concepts and questions

What is approximate equivalence between imperial and metric measures?

Length	Mass	Capacity
1 inch \approx 2.5cm 1 foot \approx 30cm 1 mile \approx 1.6km 5 miles \approx 8km	16 ounces \approx 1 pound 1 ounce \approx 25g 1 pound \approx 450g 2.2 pounds \approx 1kg	8 pints \approx 1 gallon 1 gallon \approx 4.5 litres 1 pint \approx 570ml

How is volume calculated?

Volume of a cuboid=length x width x height



$$2 \times 2 \times 4 = 16 \text{ cm}^3$$

4 cm

Shape A

9 cm

6cm

Shape B

Will shapes with the same area also have the same perimeter?

This is not true. In this example, both shapes have an area of 36cm^2 but the perimeter of Shape A is 26cm whilst the perimeter of shape B is 24cm.

Representations

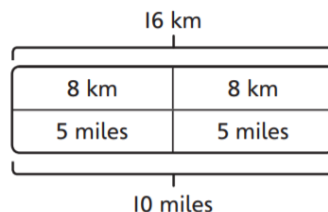
Place value chart

Can be used when \times and \div by 10, 100 or 1000 to convert. $40,500\text{g}=40.5\text{kg}$

TTh	Th	H	T	O	•	Tth	Hth
4	0	5	0	0	•		
			4	0	•	5	

Bar model

Help with representing equivalence and converting between measures, $16\text{km} \approx 10 \text{ miles}$.



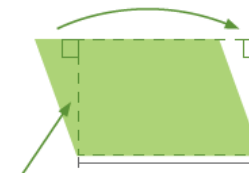
Key Vocabulary

area	perimeter	capacity	volume
estimate	approximate	equivalence	parallelogram
Metric	Weight: Gram (g), kilogram (kg). Length: millimetre (mm), centimetre (cm), metre (m), kilometre (km). Volume: millilitre (ml), litre (l).		
Imperial	Weight: Pound, ounce, stone. Length: Inch, foot, yard. Volume: pint, gallon.		
cm^3 and m^3	A litre is equivalent to 1000 cm^3 and 1 millilitre is equivalent to 1 cm^3 .		

Making connections

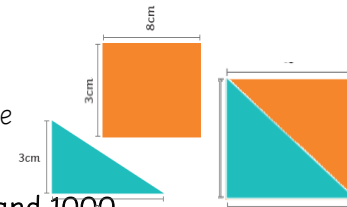
Area of parallelograms and rectangles

This parallelogram can be transformed into a rectangle. You find area exactly as you would with a rectangle by doing base length x height.



Area of parallelograms and triangles

All triangles are half of a parallelogram. Multiply height by base length then divide by two.



Multiplying and dividing by 10, 100 and 1000

