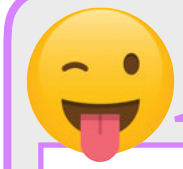
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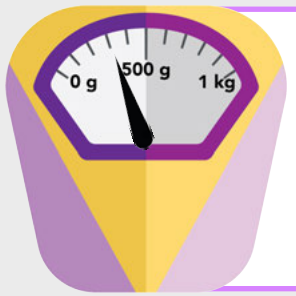


Convert these measurements. Look carefully at the unit you're being asked to convert to.

a) 2000 g =	2 kg	e) 12,674 ml =	12.674 ℓ	i) 8.97 kg =	8970 g
b) 1200 ml =	1.2 ℓ	f) 3.1 kg =	3100 g	j) 18 cm =	0.18 m
c) 450 cm =	4.5 m	g) 12.4 km =	12,400 m	k) 7646 mm =	7.646 m
d) 23 cm =	230 mm	h) 238 mm =	23.8 cm	l) 654 ℓ =	654,000 ml

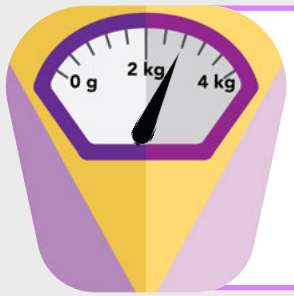
Write the measurement these scales are showing to the nearest 50g.





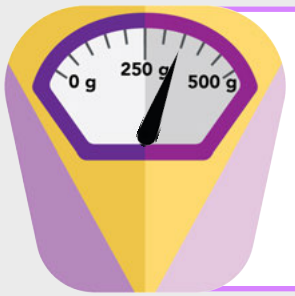
= 300 g

= 0.3 kg



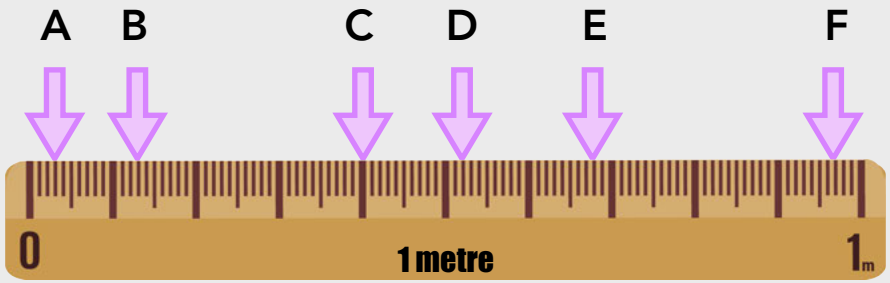
= 2800 g

= 2.8 kg



= 350 g

= 0.35 kg



A =	30	mm	D =	0.52	m
B =	13	cm	E =	68	cm
C =	0.4	m	F =	970	mm

Year 5 | Measurement | Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)

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Notes:

Match each unit to the correct kind of measurement.

Ounce	Litre	Metre	Kilogram	Mile	Pint	Inch	Gallon

Mass	Capacity	Length/distance

Use the conversion table to help you solve these problems.

Imperial	Metric
1 inch (in)	2.5 cm
1 foot (ft)	About 30 cm
1 yard (yd)	Nearly 1m
1 mile (mi)	1.6 km
1 pint (pt)	About 570 ml
1 gallon (gal)	4.5 litres
1 ounce (oz)	28 g
1 pound (lb)	450g
1 stone (st)	6.4 kg

How many millilitres are in:

2 pints? 1140 ml

5 pints? 2850 ml

Justin jogs for 4 miles in the morning. In the afternoon he completes a 16 km race. How far has he run in total?

22.4 km / 14 miles

How many feet are in:

3 metres? 10 ft

1.8 metres? 6 ft

Which is the larger capacity
8 gallons or 42 litres?

42 litres

Christine's luggage weighs 28 kg. Her sister Katy's weighs 3 st 4 lb. Who's luggage weighs more and by how many kg?

Christine's is 7 kg heavier

Which is the heavier mass
5 oz or 150 g?

150 g

Year 5 | Measurement | Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints

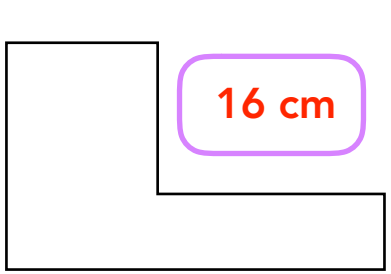
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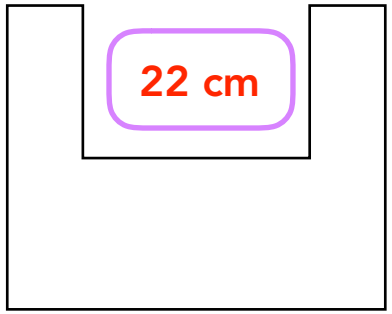
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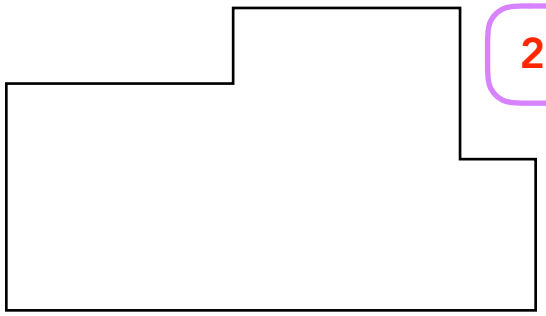
Measure the perimeter of these shapes.



16 cm

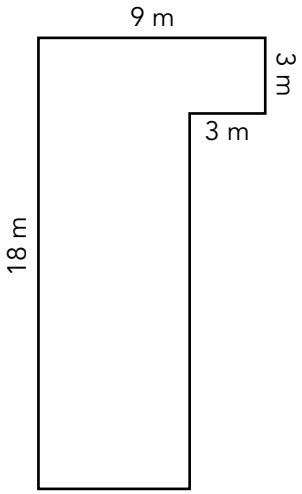


22 cm

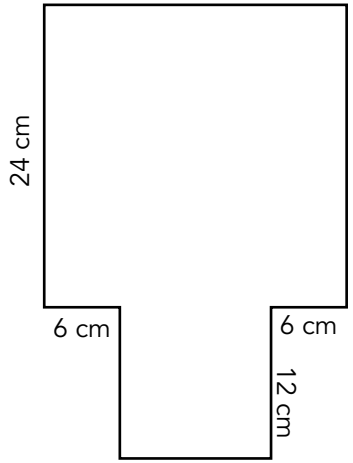


22 cm

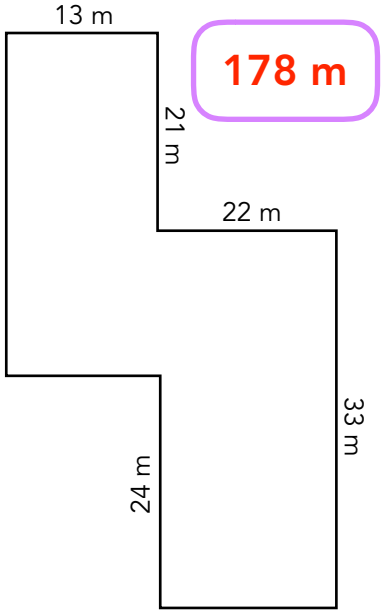
Calculate the perimeter of these shapes. The shapes are not to scale.



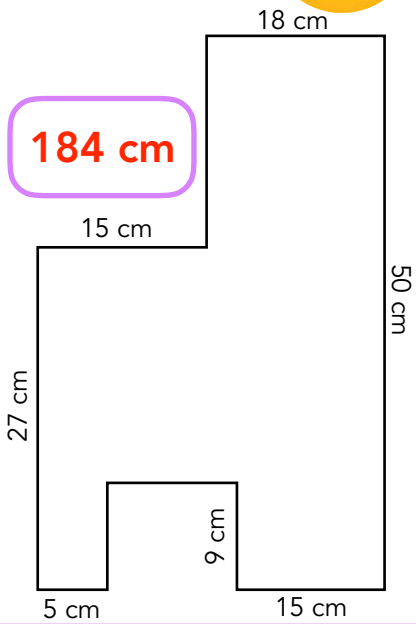
54 m



120 cm



178 m



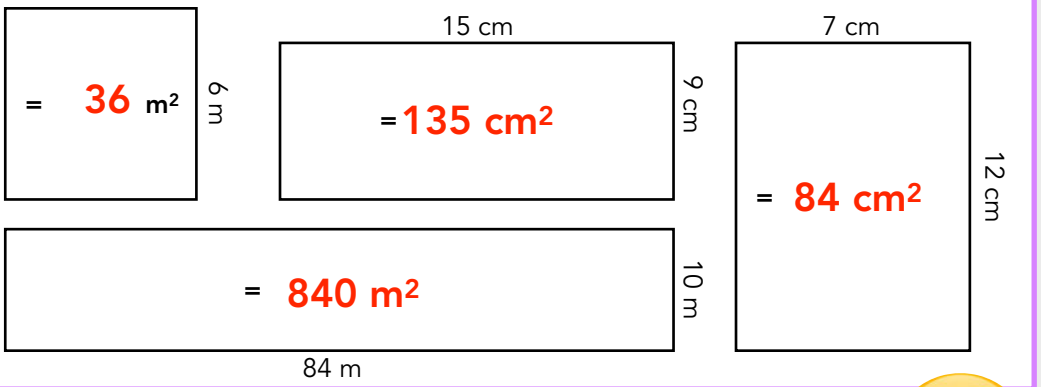
184 cm

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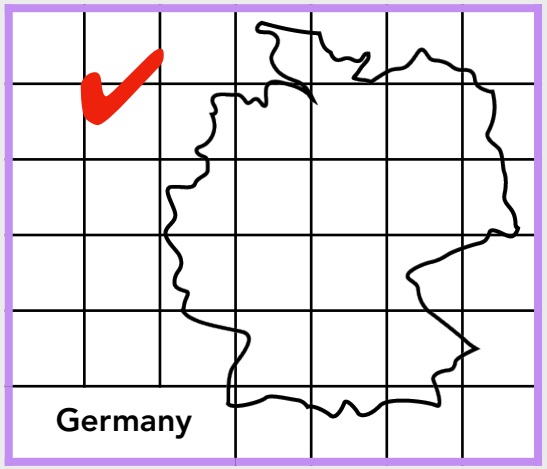
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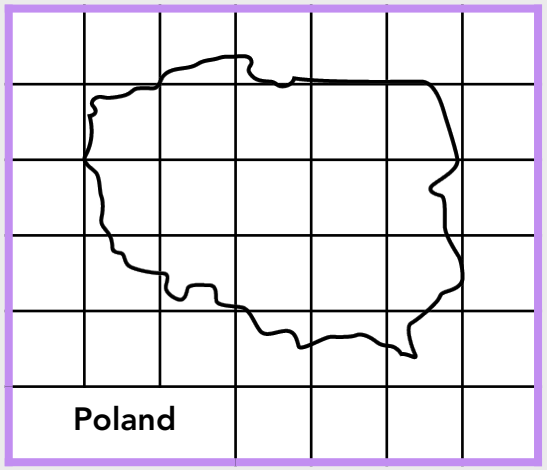
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Calculate the area of these rectangles. The shapes are not to scale

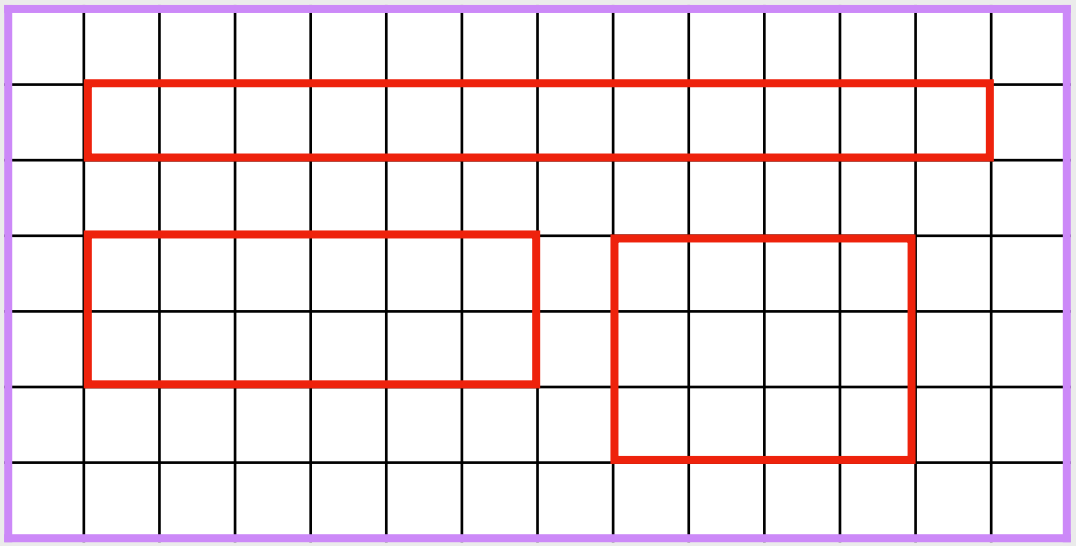


Tick the country with the largest area. Use the 1cm² grid to help you estimate each area.





Draw three different rectangles with an area of 12 cm².



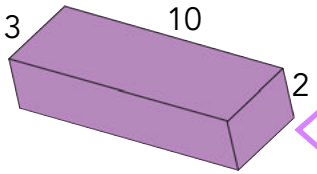
Notes:

Year 5 | Measurement | Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes

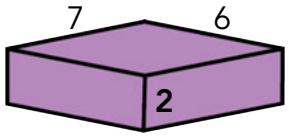
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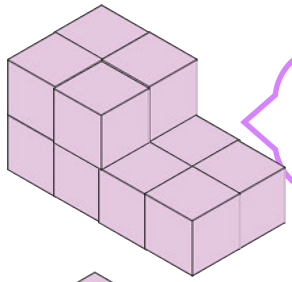
Find the volume of these cuboids. Each small cube is 1cm³ and all measurements are in cm and are not to scale.



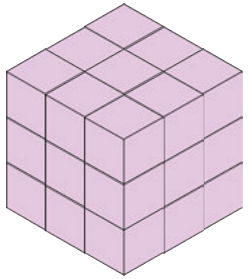
60 cm³



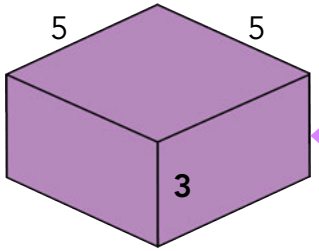
84 cm³



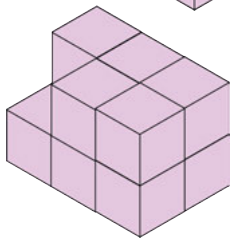
12 cm³



27 cm³

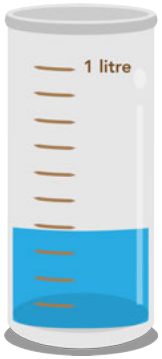


75 cm³

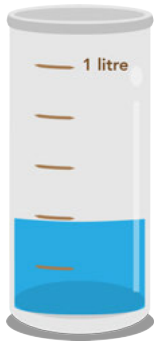


11 cm³

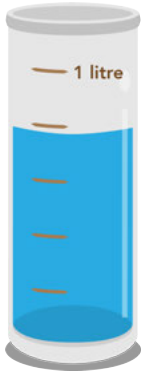
Choose the best estimate for the volume of liquid in these containers.



- ✔ 390 ml
- ☐ 450 ml
- ☐ 1 litre



- ☐ 800 ml
- ☐ 10 ml
- ✔ 400 ml



- ☐ 900 ml
- ✔ 790 ml
- ☐ 0.5 litre



- ☐ 250 ml
- ☐ 100 ml
- ✔ 25 ml

Notes:

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Convert these units of time.

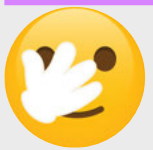


78 minutes = 1 hours 18 minutes

199 seconds = 3 minutes 19 seconds

65 days = 9 weeks 2 days

223 weeks = 4 years 15 weeks



Solve these problems.

The Simmons family went on a long holiday. They spent 2 days driving to their location, 18 days at the hotel, and three days driving back again. How long were they away for in weeks and days?

3 weeks and 2 days

Ava is rehearsing for a play. They rehearsed every day for 3 weeks and 4 days. How many days is this altogether?

25 days

Perry spent 1 hour and 20 minutes reading on Saturday and 1 hour and 45 minutes reading on Sunday. How many minutes did he spend reading over the weekend?

185 minutes

Evelyn is learning to play the piano. She spent 2 hours and 15 minutes practising on Thursday but 50 minutes less than this on Friday. How long did she practise for on Friday?

1 hour and 25 minutes

Jack and Jill are celebrating exactly a decade of being married. How many weeks in total have they been married for?

520 weeks

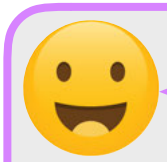
Heather has worked out that she is 845 days older than her sister. If Heather is 8 years and 24 days old, how old is her sister in years and days?

5 years and 274 days

Notes:

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Calculate how much of each ingredient you would need to make this recipe for eight people.

Stick Toffee Pudding (serves six people)			
120g chopped nuts	160g	30ml lemon juice	40ml
240g butter	320g	3 eggs	4 eggs
150g brown sugar	200g	180g flour	240g
60ml cream	80ml	15g icing sugar	20g

Tony walked 0.25km to his car, drove 6km and ran for 4km along the beach. How many metres did he travel in total?

10,250m

If a fingernail grows 2mm in a week, how many cm would it grow in 1 year?

10.4cm

A hose sprays 100 litres of water in five minutes. How long would it take to fill up a 150 litre pool?

7 minutes and 30 seconds

Sammy has a loaf of bread and four cans of beans in her shopping bag. In total it weighs 1.34kg. The loaf of bread weighs 800g. How much does each can of beans weigh?

135g

Notes:

Year 5 | Measurement | Use all four operations to solve problems involving measure using decimal notation, including scaling.

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