

Check out

You should now be able to ...

✓ Convert between metric units.	5	1
✓ Convert between metric and imperial units.	5	2
✓ Calculate the area of a 2D shape.	6	3 - 5
✓ Calculate the circumference and area of a circle.	6	6 - 7
✓ Recognise and use compound measures.	7	8

Test it

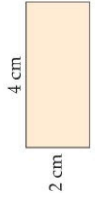
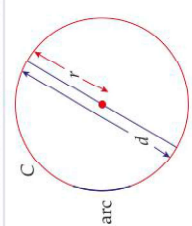
Questions

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Language Meaning

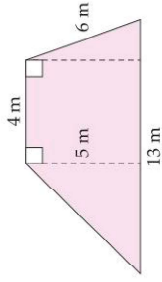
Example

Metric unit	A unit of measurement from the metric system, which is based on powers of 10.	centimetres, metres, kilometres grams, kilograms, tonnes, are some examples of metric units
Imperial unit	A unit of measurement from the older imperial system.	inches, feet, yards, miles ounces, pounds, stone, tons are some examples of imperial units
Area	The space inside a 2D shape.	 The area of the rectangle is 8 cm ²
Circumference	The distance around a circle.	
Diameter	The distance across a circle, through the centre.	
Radius	The distance from the centre of a circle to the circumference.	
Speed	A measure of the rate at which distance is covered.	The speed of sound travelling through air is roughly 343 metres per second.

1 Convert between these metric measurements.

- a 4.9 m to mm
- b 87 cl to litres
- c 0.47 kg to g
- d 0.9 cm² to mm²
- e 3 m² to cm²
- f 3 l in cm³

5

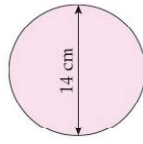


Calculate the area of the trapezium. State the units of your answer.

2 Convert these imperial measurements to metric.

- a 3 pints to litres
- b 24 lb to kg
- c 90 miles to km
- d 39 inches to m

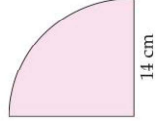
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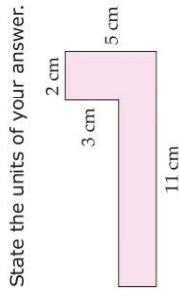
- a the area
 - b the circumference of the circle.
- Give your answers to 1 dp.

7 The diagram shows a quarter of a circle with radius 14 cm. Calculate

- a the area
 - b the perimeter.
- Give your answers to 1 dp.



3 Calculate the area of this shape. State the units of your answer.



8 a A car travels 30 miles in 45 minutes. Calculate the car's average speed in miles per hour.

- b A 2 centimetre cube of lead has a mass of 90.7 grams. Calculate the density of lead in g/cm³.

4 The area of a right-angled triangle is 16 cm². The base is 4 cm in length. What is the height of the triangle?

What next?

0 - 3	Your knowledge of this topic is still developing. To improve look at Formative test: 3B-2; MyMaths: 1061, 1083, 1088, 1091, 1108, 1121, 1128, 1191, 1246 and 1329
4 - 6	You are gaining a secure knowledge of this topic. To improve look at InvisiPen: 313, 314, 315, 316, 332, 333, 335, 351, 352 and 353
7, 8	You have mastered this topic. Well done, you are ready to progress!

Score