

Measurement

6.2

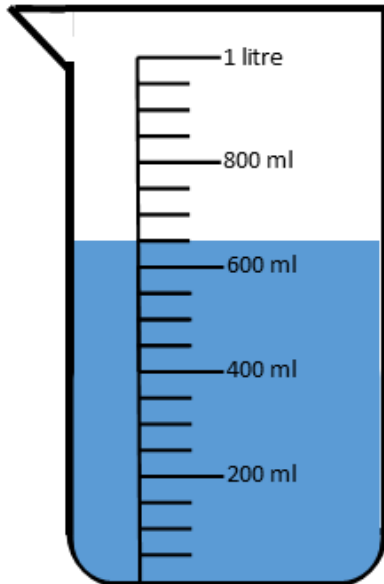
| | |
|----------------------------|--|
| Total Marks (out of 24) | |
|----------------------------|--|

| | |
|------|--|
| Name | |
| Date | |

Section 1:

- solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
- use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places

1



Bethany needs 1 litre of water.

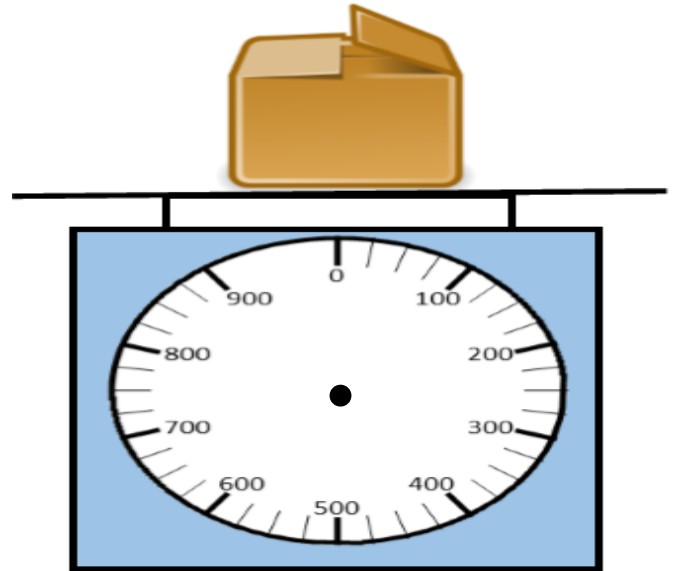
How much more water does she need to add to the jug?

| | |
|--|----|
| | ml |
|--|----|

1 mark

2 Zac is sending a package.

It weighs 0.625 kg.



Draw a pointer on the scale to show this weight.

1 mark

3 Alecia and Monty took part in the long jump.

Alecia jumped **2.1 metres**.

Monty's jump was **25 cm shorter** than Alecia's



How far did Monty jump?

1 marks

4 Alecia and Monty ran a lap of the school field.

Alecia took **104 seconds**. Monty took **1 minute 35 seconds**.

How much **quicker** was Monty to run the lap than Alecia?

1 mark

5

Convert these measurements.

$$42 \text{ mm} = \boxed{} \text{ cm}$$

$$3.025 \text{ kg} = \boxed{} \text{ g}$$

$$3 \text{ minutes} = \boxed{} \text{ seconds}$$

$$104 \text{ cm} = \boxed{} \text{ m}$$

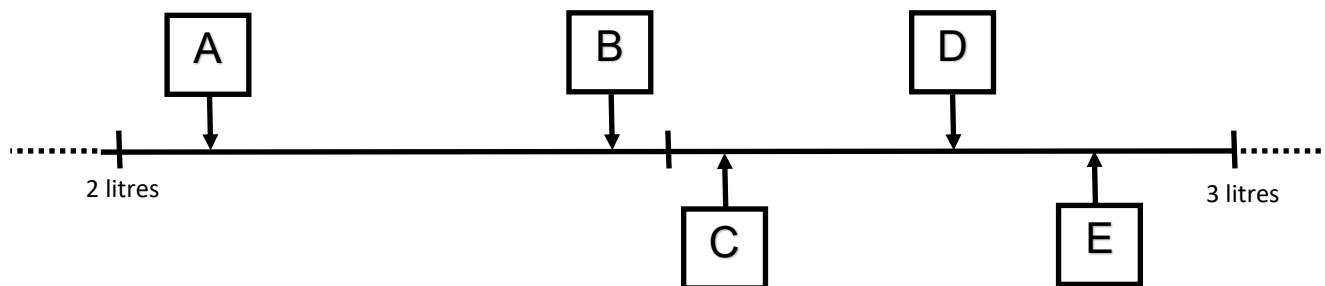
$$1.09 \text{ litres} = \boxed{} \text{ ml}$$

$$5 \text{ years} = \boxed{} \text{ months}$$

3 marks

6

Here are five letters on a scale.



Match each capacity with one of the measures above.

$2 \frac{3}{4} \text{ l}$

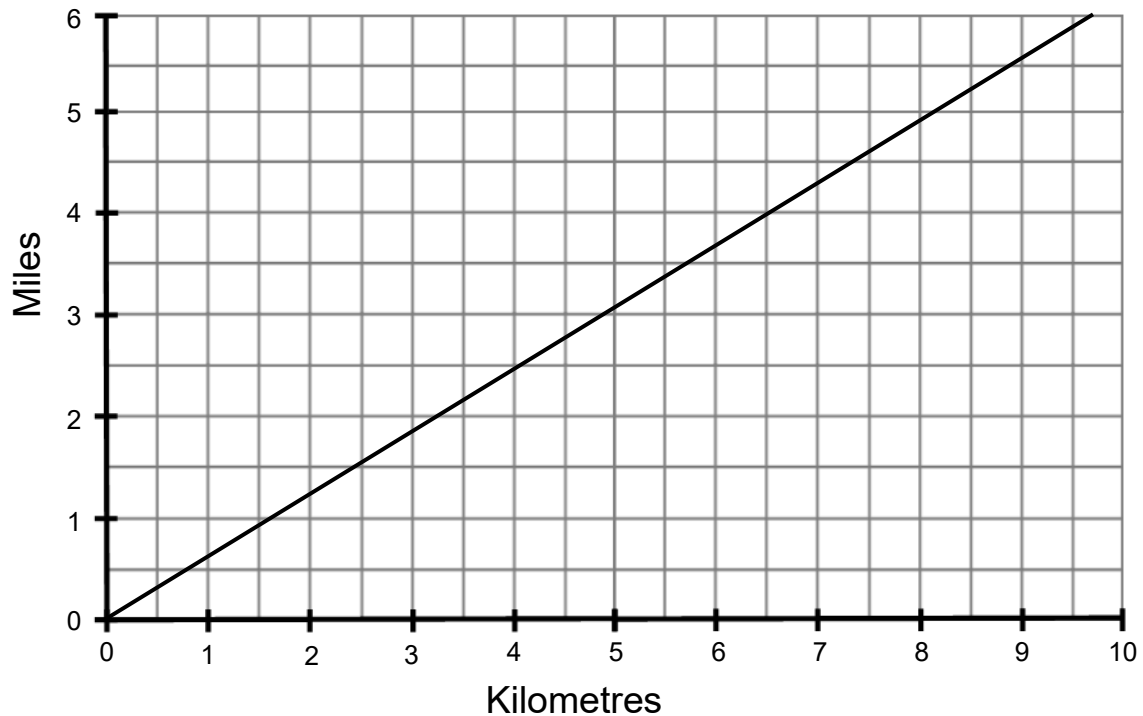
2.55 l

2450 ml

2090 ml

2.9 l

3 marks

Section 2:**convert between miles and kilometres****7**

Use the graph to convert between miles and kilometres.

Give your answer to the nearest one decimal place.

| | | |
|---------|------------------|------|
| 2 miles | is approximately | km |
| miles | is approximately | 9 km |
| 6 miles | is approximately | km |

2 marks

- 8** A **marathon** is **26 miles**. Marcus wants to know how far this is in kilometres. Marcus says 'If I find out how far 2.6 miles is in km, I can use this to help.'

Use the graph to find approximately how many **kilometres in a marathon**.

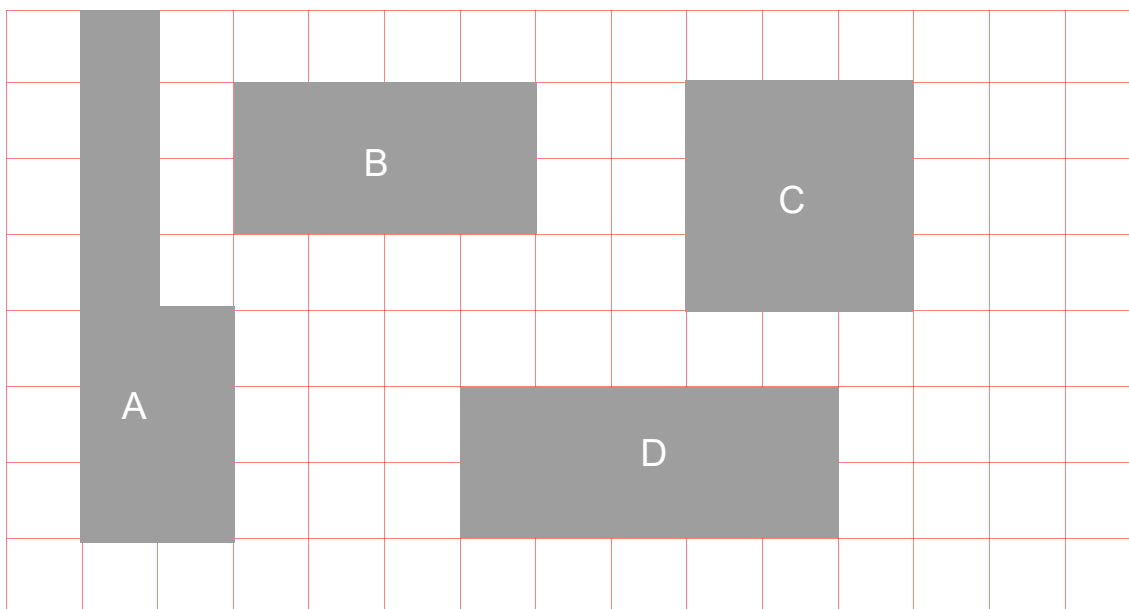
| |
|----|
| km |
|----|

1 mark

Section 3:

recognise that shapes with the same areas can have different perimeters and vice versa

9 These shapes are drawn on a 1 cm square grid.



Write the letters of the **two** shapes have the same area.

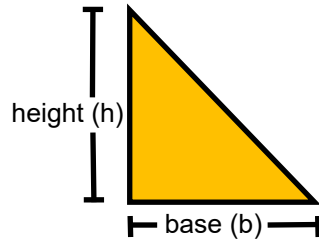
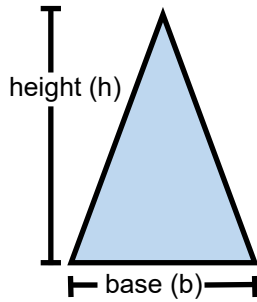
1 mark

Write the letters of the **two** shapes have the same perimeter.

1 mark

Section 4:

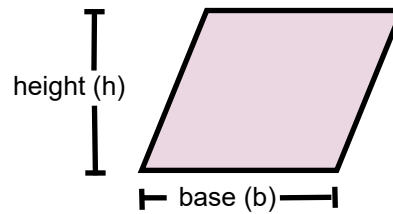
- recognise when it is possible to use formulae for area and volume of shapes
- calculate the area of parallelograms and triangles

10The **area** of any triangle is:

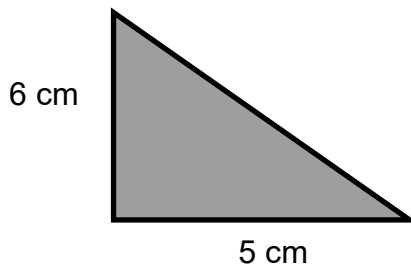
base multiplied by height divided by two.

We can write this as: $(b \times h) \div 2$ The **area** of any parallelogram is:

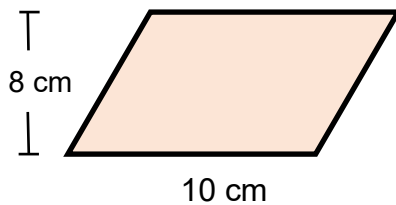
base multiplied by height

We can write this as: $b \times h$ 

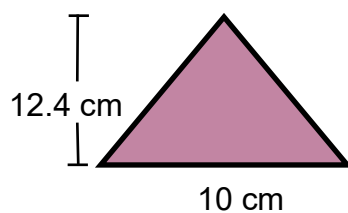
Find the area of these shapes (not drawn to scale).



square centimetres



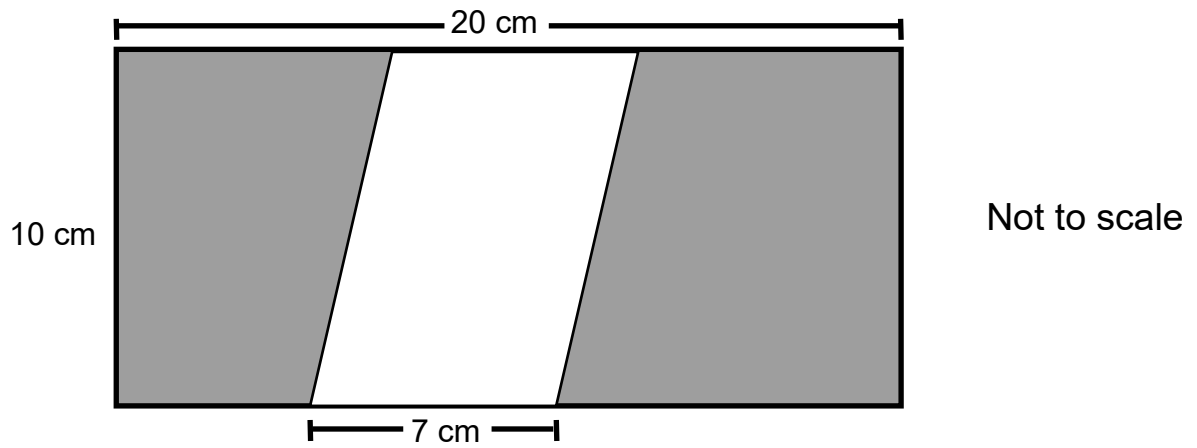
square centimetres



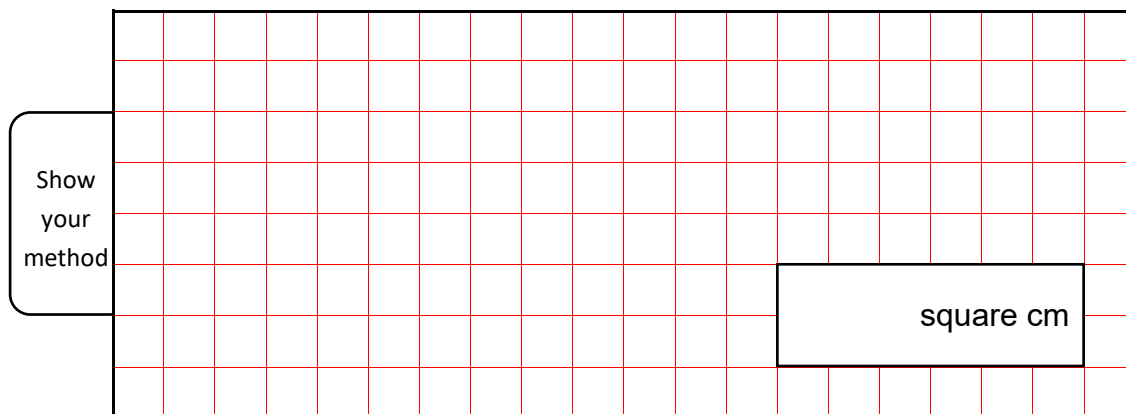
square centimetres

3 marks

11

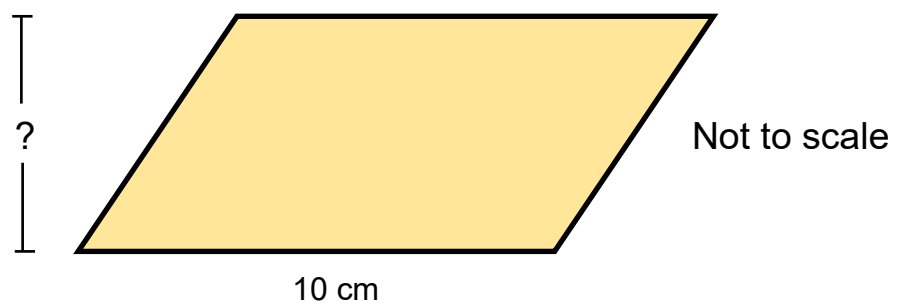


Calculate the **shaded area** of this rectangle .



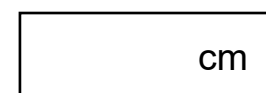
2 marks

12



The area of this parallelogram is 75 square centimetres.

Calculate the **height** of the parallelogram.



1 mark

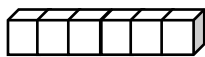
Section 5:

calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres and cubic metres and extending to other units

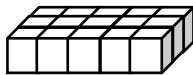
13

$$\text{1 cube} = 1 \text{ cm}^3$$

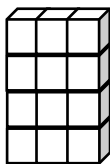
Write the volume of each shape



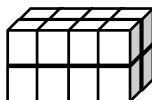
=

 cm^3


=

 cm^3


=

 cm^3


=

 cm^3

 2 marks
14

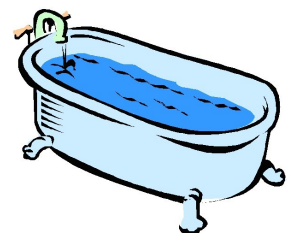
Underline the approximate capacity of a bath.

2 litres

20 litres

200 litres

2000 litres



 1 mark