

Measurement

6.1

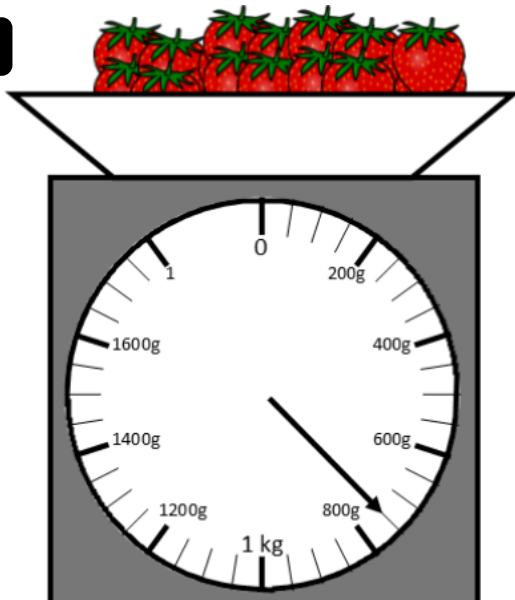
Total Marks (out of 25)	
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Name	
Date	

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



Eve is making strawberry jam.

She needs 1.3 kg of strawberries.

How many more grams of strawberries does she need?

g

1 mark

5

Convert these measurements.

65 mm	=		cm
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1.072 kg	=		g
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5 minutes	=		seconds
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407cm	=		m
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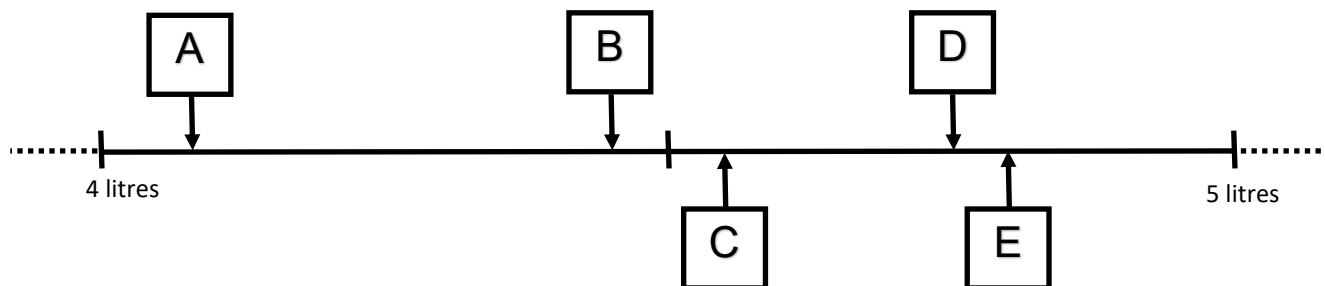
2.05 litres	=		ml
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4 years	=		months
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3 marks

6

Here are five letters on a scale.



Match each capacity with one of the measures above.

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

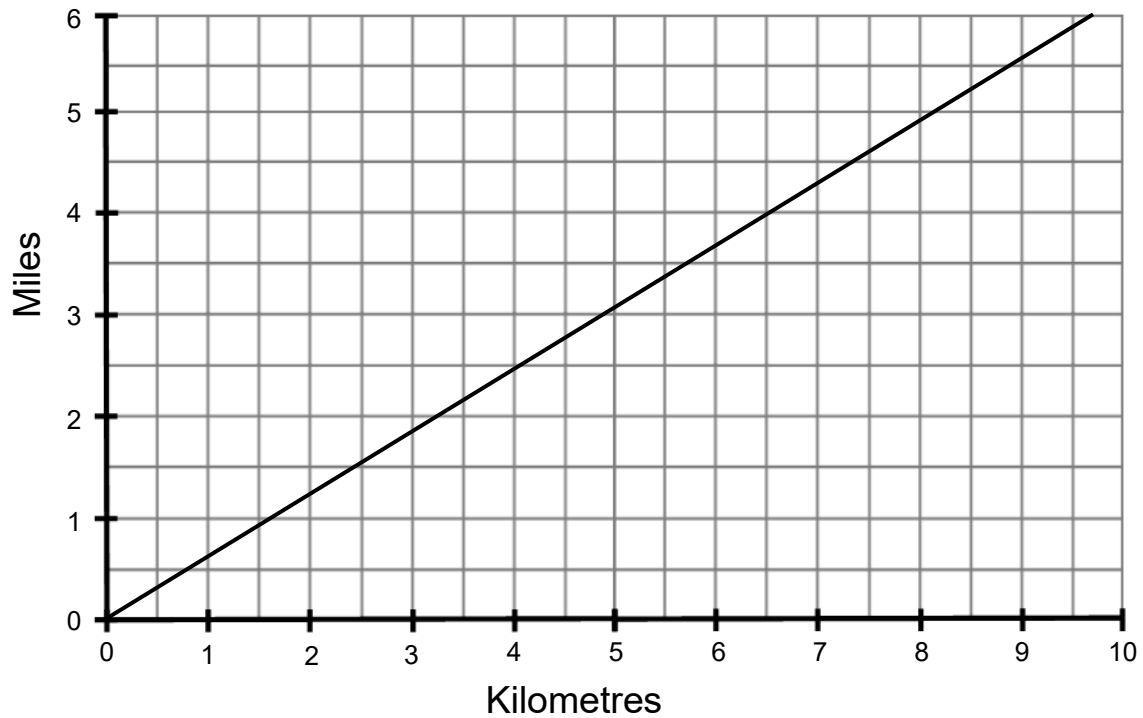
4.55 l

4450 ml

4080 ml

4.8 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.

3 miles	is approximately	km
miles	is approximately	6 km
5 miles	is approximately	km

2 marks

8 Marcus says, “200 miles is approximately 320 km.”

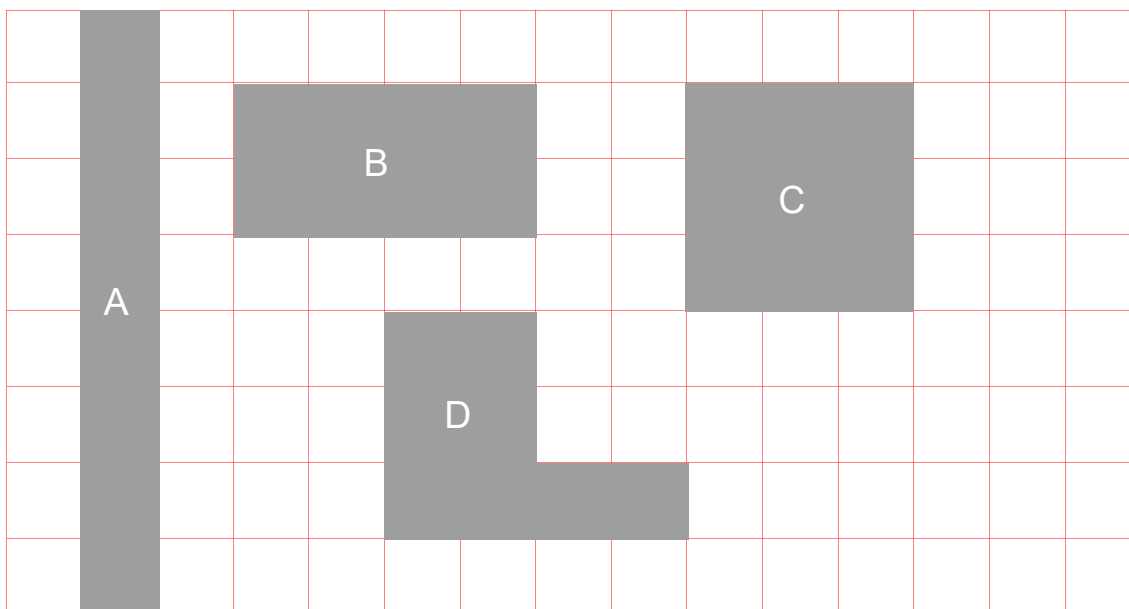
Explain how he used the graph to find this out.

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 **three** shapes have the same area.

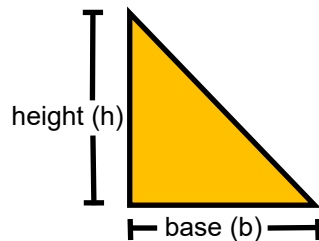
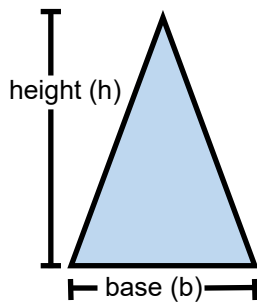
1 mark

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

1 mark

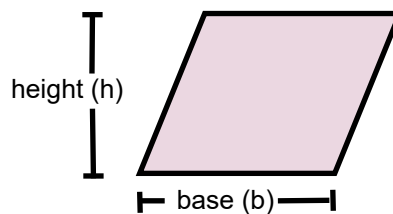
Section 4:

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

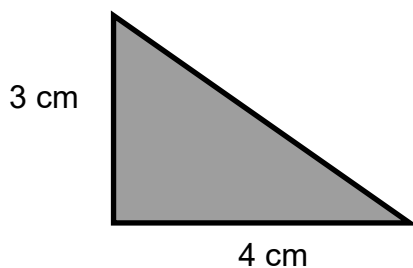
10

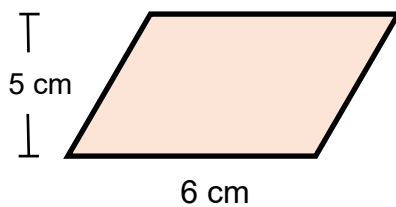
The **area** of any triangle is:
base multiplied by height divided by two.
We can write this as: $(b \times h) \div 2$

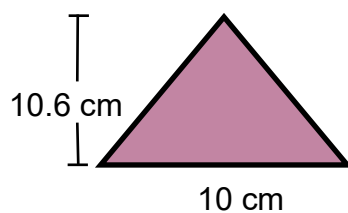
The **area** of any parallelogram is:
base multiplied by height
We can write this as: $b \times h$



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

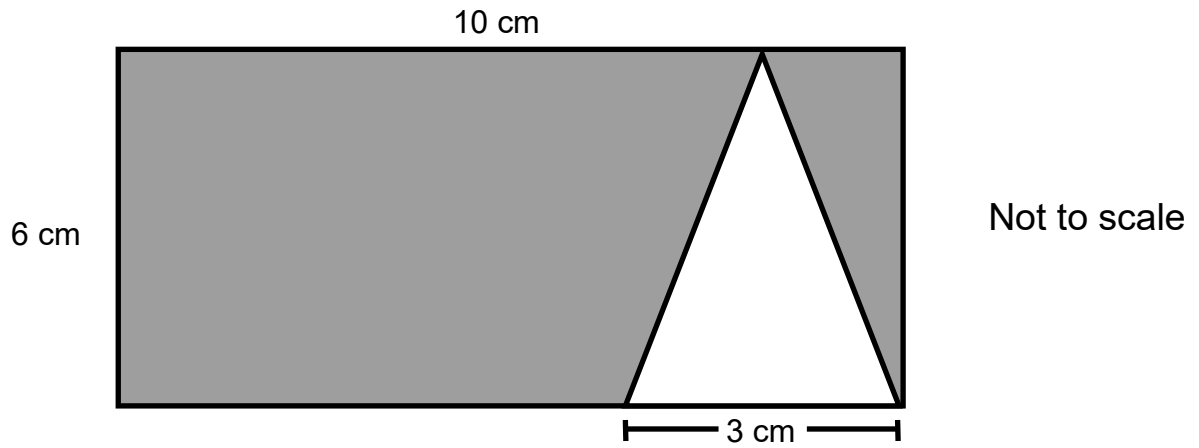




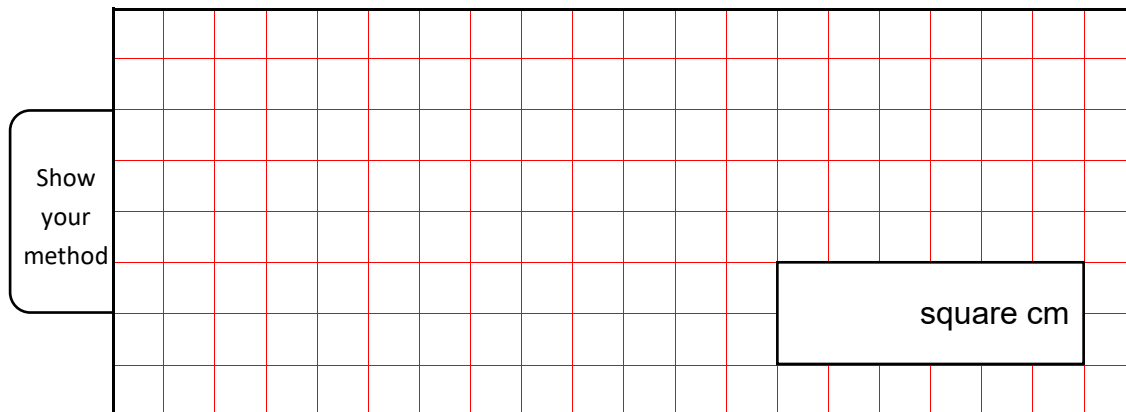


3 marks

11

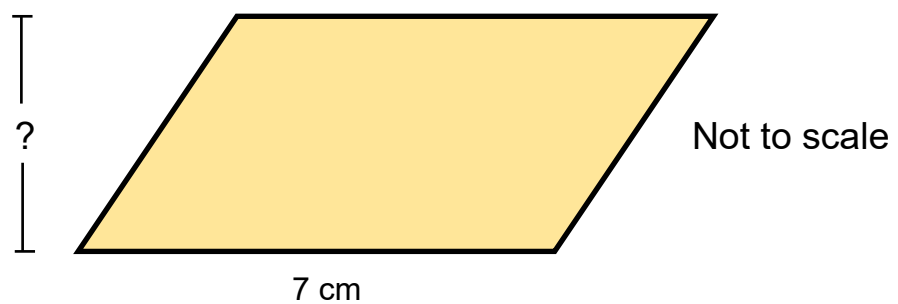


Calculate the **shaded area** of this rectangle .



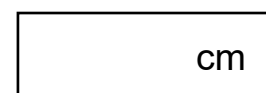
2 marks

12



The area of this parallelogram is 42 square centimetres.

Calculate the **height** of the parallelogram.



1 mark

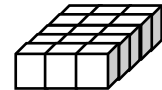
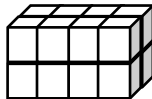
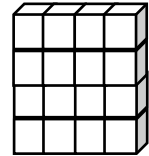
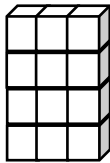
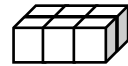
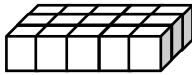
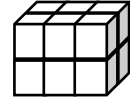
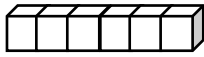
Section 5:

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

13

Draw lines to match the cuboids with the same volume.

The first one has been done for you.



2 marks

14

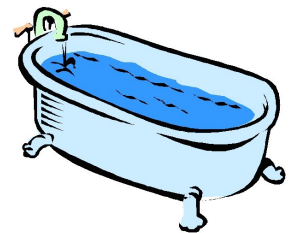
Underline the approximate capacity of a bath.

2 litres

20 litres

200 litres

2000 litres



1 mark