Measurement

5.1

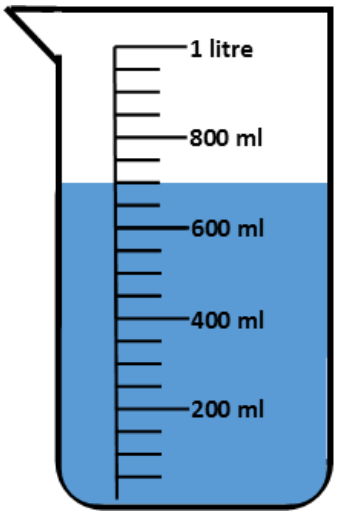
Total Marks (out of 25)	

Name	
Date	

Section 1:

- **convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)**
- **use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling**

1



Molly needs **1 litre** of water.

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

ml

1 mark

2 Sophia and Riley both threw a javelin.

Sophia threw it 608 centimetres.

Riley threw it 5.72 metres.

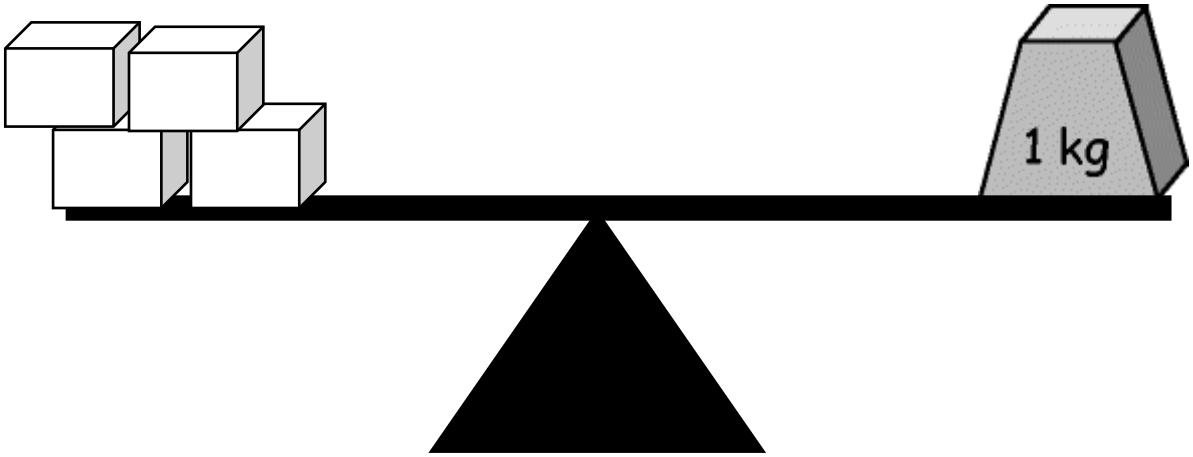
How much further did Sophia throw the javelin than Riley?

Show your method

cm

2 marks

3 Four identical boxes have the same mass as a 1kg weight.



What is the **mass** of **one** box?

grams

1 mark

4 Convert these measurements.

402 cm	=	m
1.5 km	=	m
83 mm	=	cm
6.2 km	=	m
2.05 litres	=	ml

5 marks

5 Lola wants to run **two kilometres**.

A lap of the school field is **400 metres**.

How many laps must she run?

Show your method

laps

2 marks

Section 2:

understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints

6 A kilogram is approximately **2.2 pounds**.

Samuel's sister weighed **3 kg** when she was born.

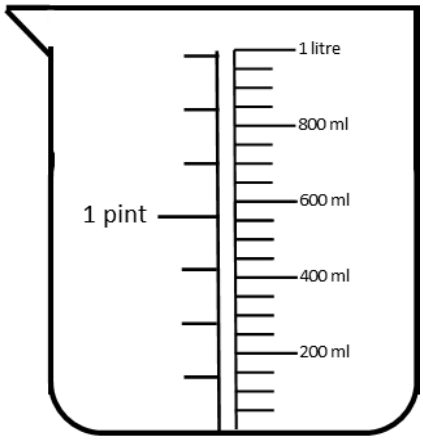
How much did she weigh in pounds?

pounds

1 mark

7 This measuring jug has two scales.

One scale shows litres and one scale shows pints.



Use the jug to convert between pints and litres.

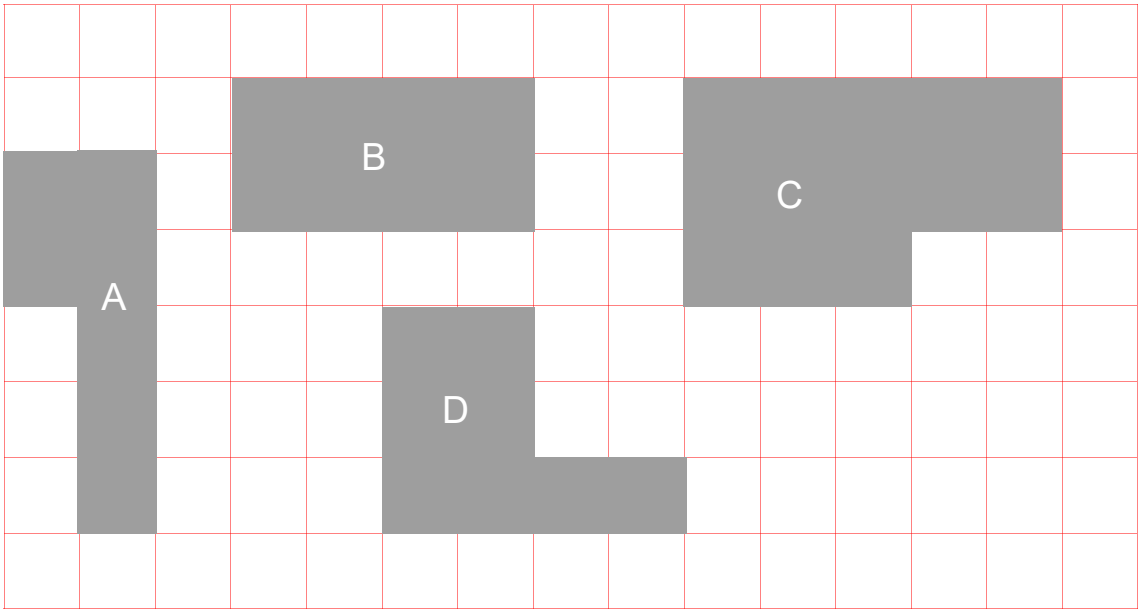
1 pint	is approximately	ml
half a pint	is approximately	ml
700 ml	is approximately	pints

3 marks

Section 3:

- measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
- 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

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



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

1 mark

What is the area of shape C?

square centimetres

1 mark

9 This rectangle has a perimeter of 18 cm. The length of the rectangle is 6.5 cm.

Not to scale

Calculate the **height** of the rectangle.

cm

1 mark

10 The area of this rectangle is 22 square centimetres.

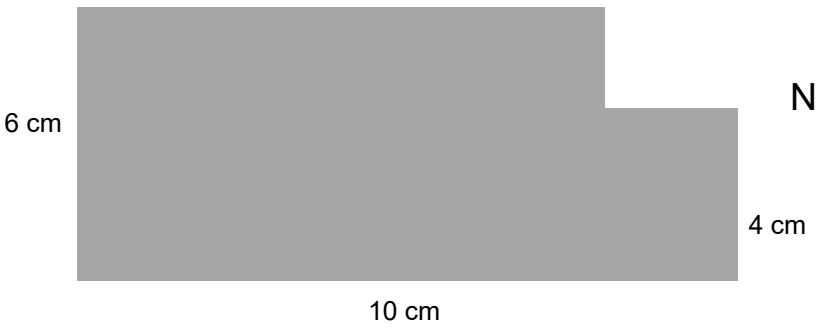
Not to scale

Calculate the **perimeter** of the rectangle.

cm

1 mark

11



Not to scale

Calculate the **perimeter** of this shape.

cm

1 mark

Section 4:

solve problems involving converting between units of time

12 Monty is trying to work out how many **hours** there are in **three weeks**.

Tick the correct calculation to use.

- [ ] 12 x 7 x 3
- [ ] 24 x 3
- [ ] 24 x 7 x 3
- [ ] 24 x 7

1 mark

13 Convert these units of time.

2 days	=	hours
a fortnight	=	days
5 weeks	=	days
4 hours	=	minutes

4 marks