Lancashire Curriculum Tests

Year 4 – End of Spring Term

(On track to meet end of year expectations)

Mathematics

Paper 2: reasoning

First name	
Middle name	
Last name	

Total marks	

Lancashire County Council

Instructions

You **may not** use a calculator to answer any questions in this test.

Questions and answers

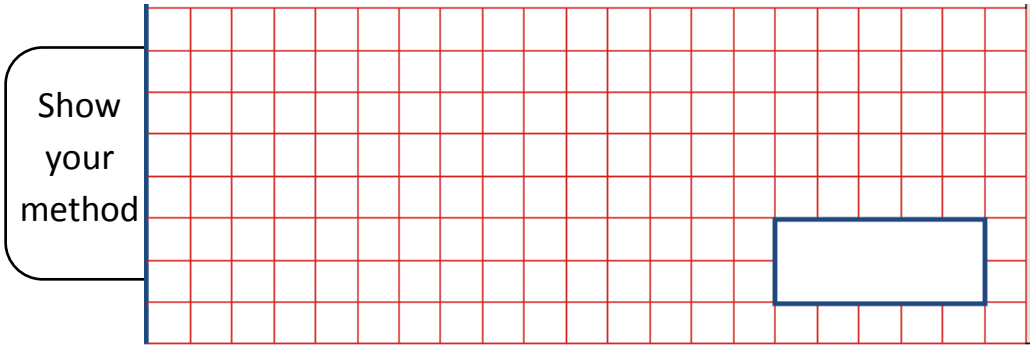
You have approximately **40 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do any working out, you can use the space around the question.

Some question have a method box like this:



For these questions, you may get a mark for showing your method.

If you cannot do one of the questions, **go on to the next one**.
You can come back to it later if you have time.

If you finish before the end, **go back and check your work**.

Marks

The number under each line at the side of the page tells you the maximum number of marks available for each question.

1 Fill in the numbers to complete the sequences.

27 36 45 54 ☐

☐

1 mark

225 200 175 150 ☐

☐

1 mark

2 Here is a place value chart.

What number would the circled parts make when combined?

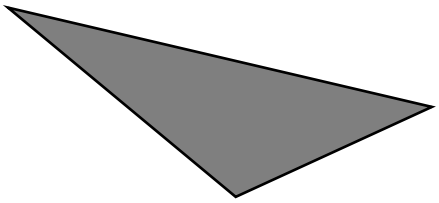
0	1	2	3	4	5	6	7	8	9
0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

_____

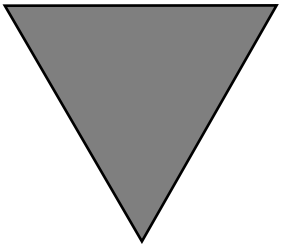
☐

1 mark

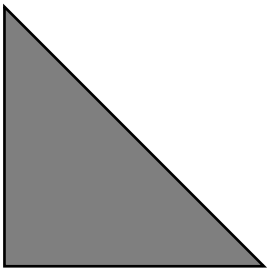
3 Match the triangle to its name.



equilateral



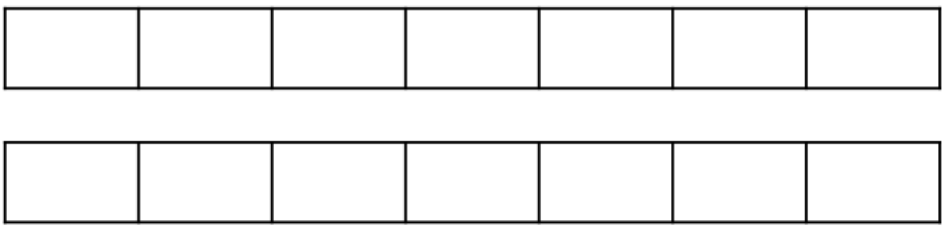
isosceles



scalene

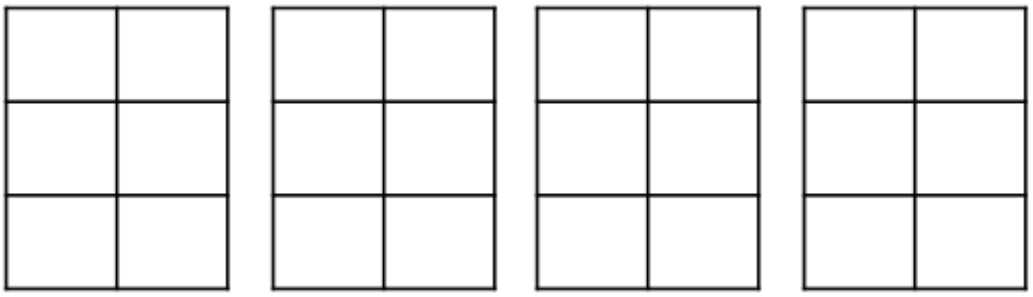
1 mark

4 Use the fraction strips to calculate $\frac{5}{7} + \frac{6}{7}$



1 mark

5 What multiplication calculation is represented by these arrays?



☐ x ☐ x ☐

☐

1 mark

6 Sara is saving up to buy a book that costs £12.90

She has £6.80 in her money box and is given £1.40 by her dad.

How much **more** does she have to save to buy the book?

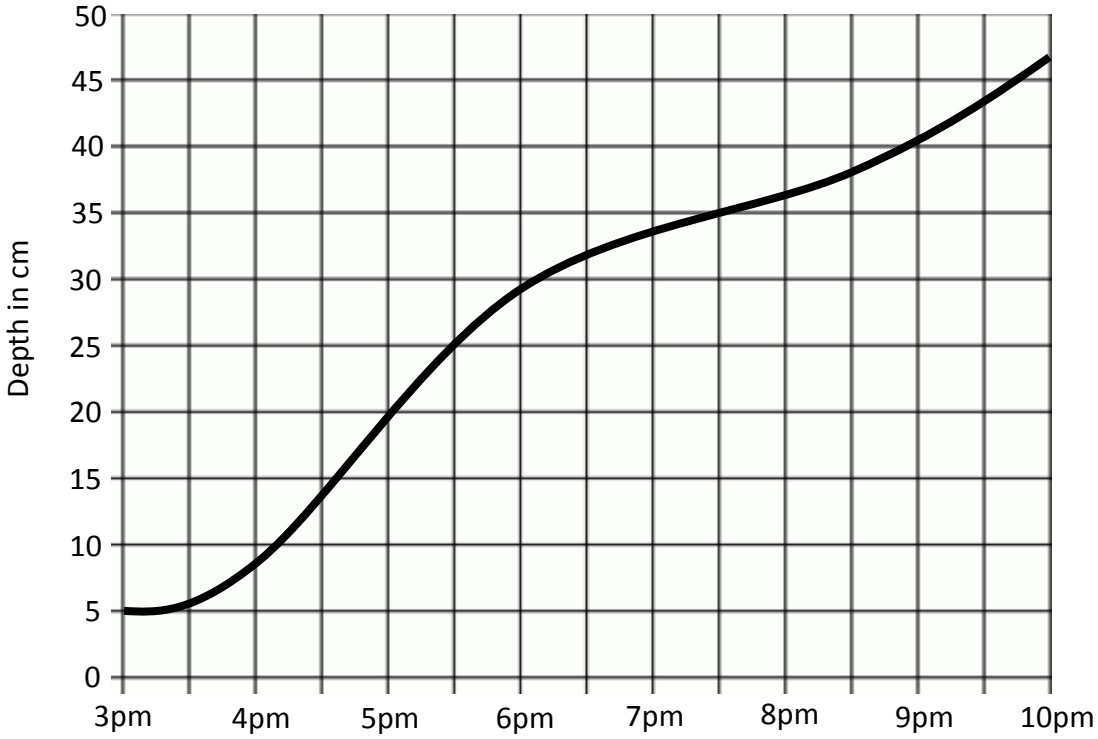
Show your method

£ ☐

☐

2 marks

7 This graph shows the depth of snow at a school in Iceland during a snowstorm.



How deep was the snow at **6pm**?

cm

1 mark

How much snow fell **between 4pm and 8pm**?

cm

1 mark

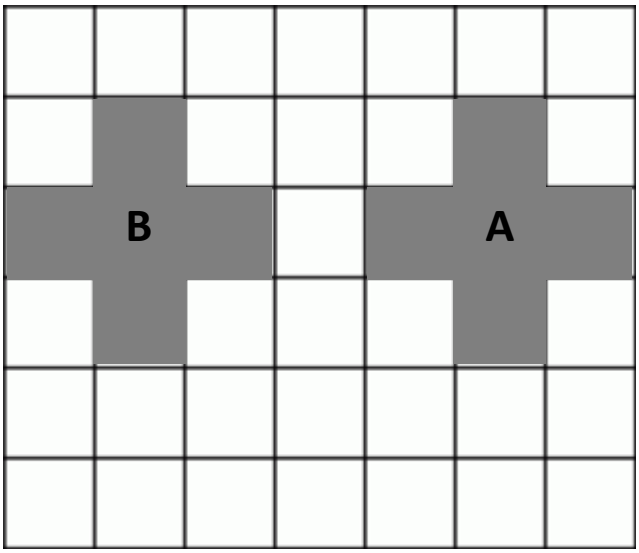
8 Fill in the missing number to make the calculation correct.

$$4 \times 6 = 8 + \square + 8$$

1 mark

9 The shape on the grid has moved from position A to position B.

Describe the movement the shape has made.

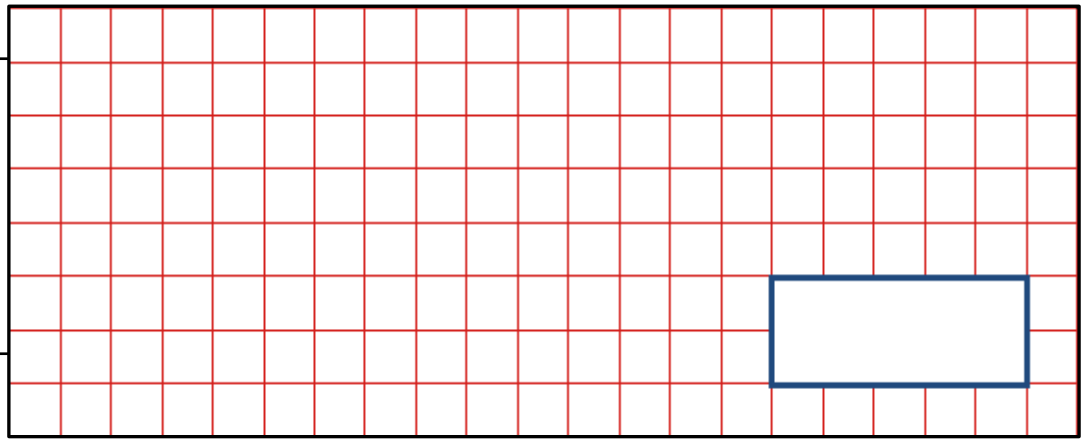


1 mark

10 Ben is reading a book.
The book has 84 pages.
Ben has one quarter of the book left to read.

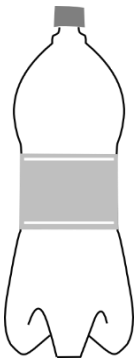
How many pages of the book has Ben read?

Show your method



2 marks

11 Put a ring around the capacity of this bottle of fizzy drink.

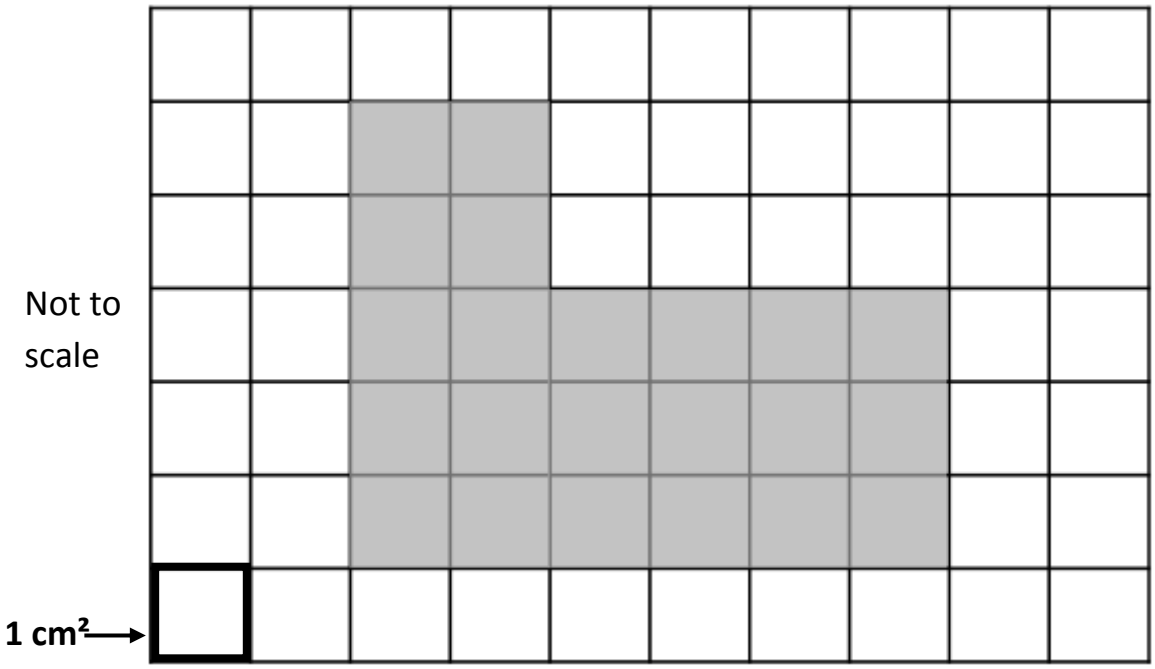


2 litres 20 litres 2ml 20ml

1 mark

12 Find the **area** of the shaded shape.

Not to scale



cm²

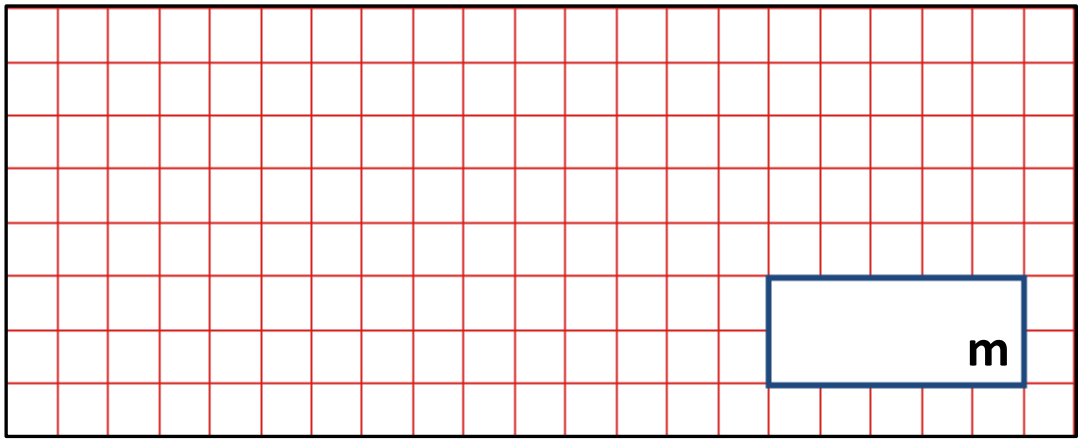
1 mark

13 How many **tenths** are there **altogether** in **1.8**?

1 mark

14 Sara is doing a sponsored walk around the playground.
One lap of the playground is 234 metres.

How far has Sara walked if she has completed **six laps** of the playground?



1 mark

Ben has walked 1,378m.

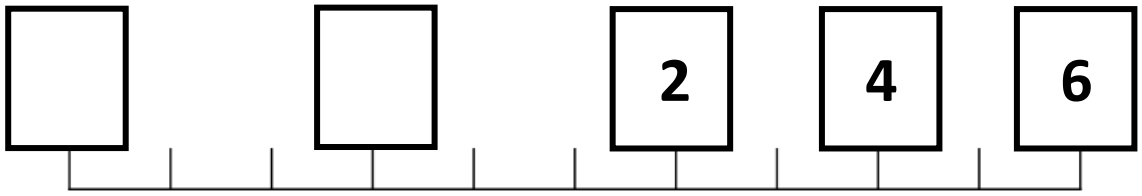
He wants to walk 2,000m in total.

How much **further** does he need to walk?

m

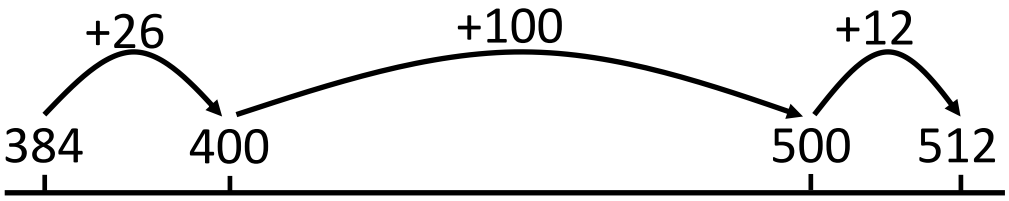
1 mark

15 Label the missing numbers on the number line.



1 mark

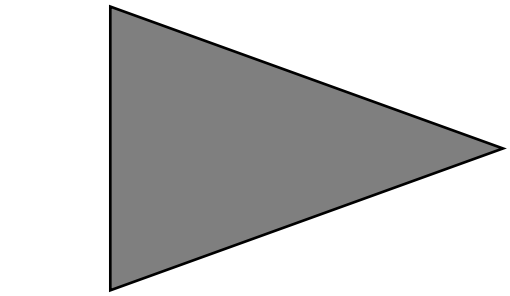
16 Ali has calculated that the difference between 384 and 512 is 138
He worked it out by counting up on a number line.

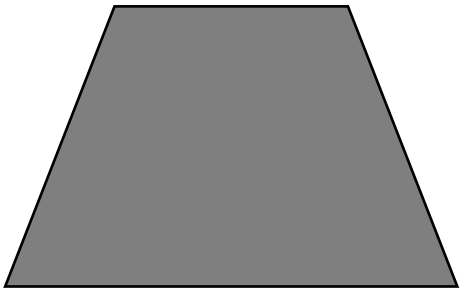


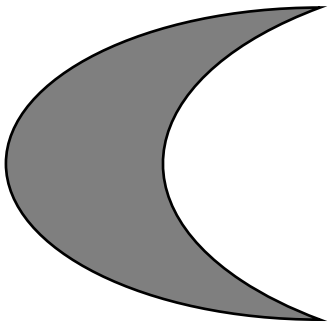
What mistake has Ali made?

1 mark

17 Tick all the shapes that have **at least one** line of symmetry.







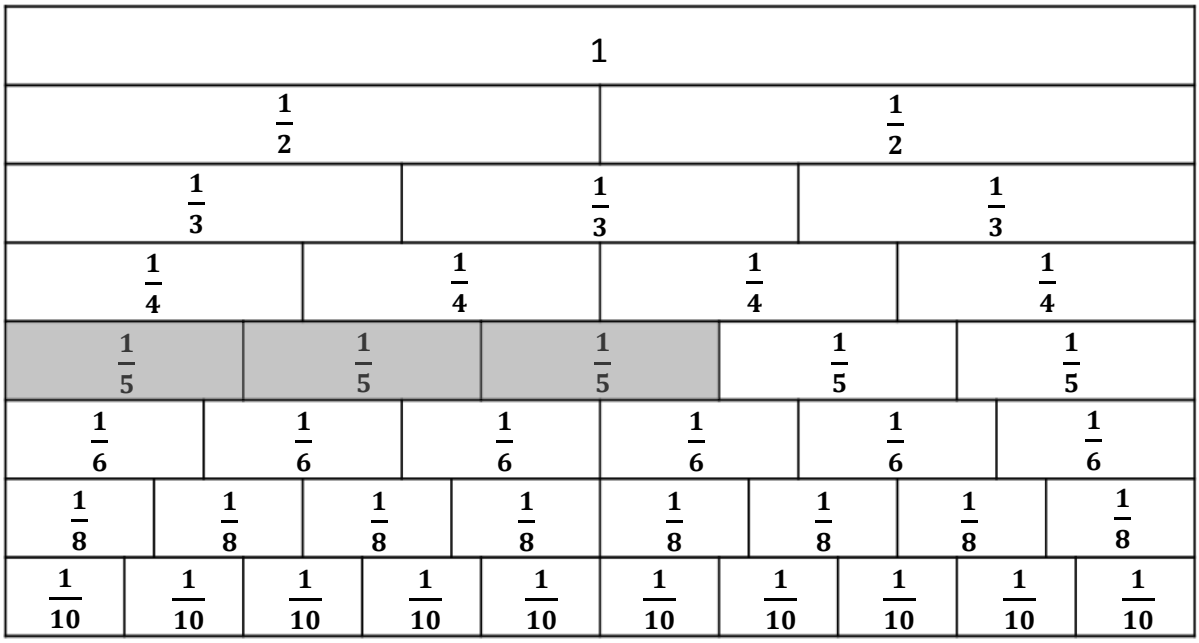
2 marks

18 Lin knows that 6 x 7 = 42

Explain how she could use this to work out **60 x 7**

1 mark

19 Use the fraction wall to identify a fraction that is equivalent to $\frac{3}{5}$



1 mark

20 Sort these numbers into the correct place on the diagram.

One has been done for you.

~~6~~ 27 40 36

	multiple of 9	not a multiple of 9
multiple of 3		6
not a multiple of 3		

1 mark

Write a number **between 50 and 60** that is **both a multiple of 3 and 9**

_____

1 mark

21 Fill in the missing numbers to complete these statements.

1 cm = ☐ mm

1 ☐ = 24 hours

☐

1 mark

22 This table shows the highest mountains in the four countries of the United Kingdom.

Country	Mountain	Height in metres
England	Scafell Pike	978
Northern Ireland	Slieve Donard	850
Scotland	Ben Nevis	1344
Wales	Snowdon	1085

How much **shorter** is the highest mountain in **England** than the highest mountain in **Scotland**?

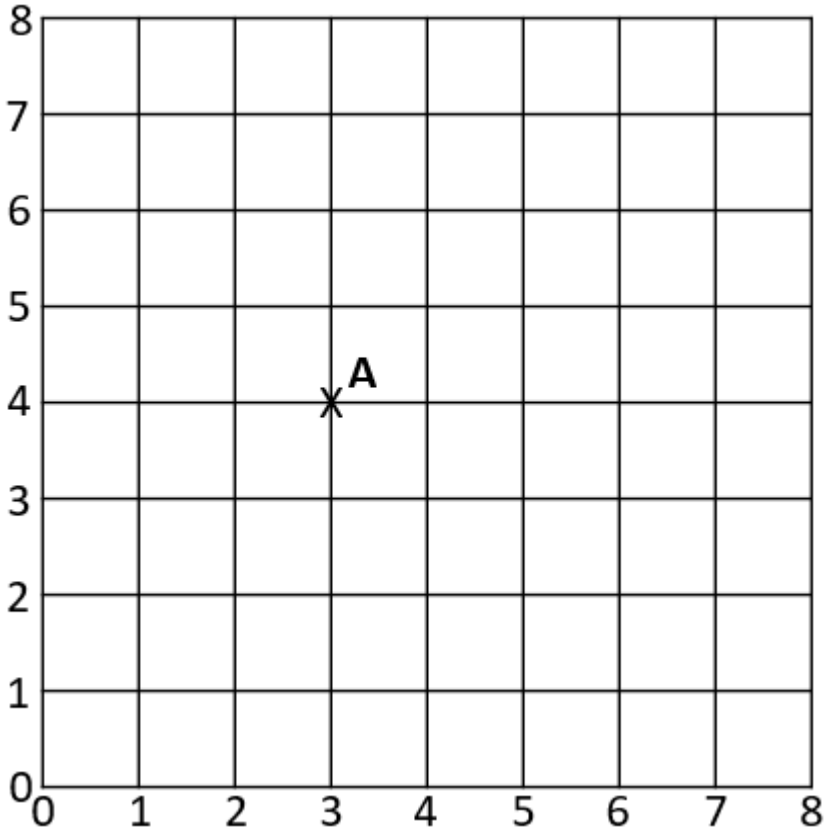
Show your method

m

☐

2 marks

23 Here is a coordinate grid.



Write the coordinates of point A.

_____

1 mark

On the grid, plot point B at (7, 2).

1 mark

24 Sara is asked to calculate 19 x 5

Tick the calculations that she could use to solve this.

20 x 5 - 1 ☐

20 x 5 - 5 ☐

19 x 10 - 5 ☐

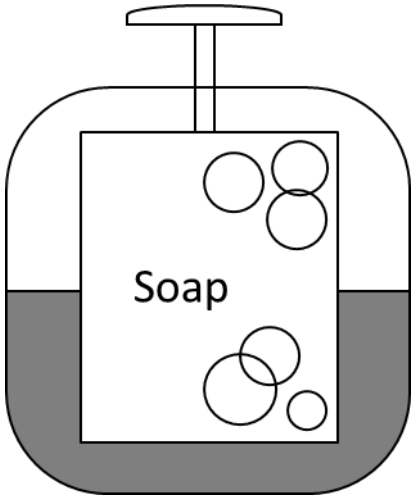
19 x 10 ÷ 2 ☐

10 x 5 + 9 x 5 ☐

☐

2 marks

25 Estimate the amount of soap left in this bottle if the bottle had 250ml when it was full.



ml

1 mark

END OF TEST