



General Certificate of Secondary Education
January 2012

Centre Number

71

Candidate Number

Mathematics

Module N5 Paper 1
(Non-calculator)
Foundation Tier

[GMN51]

MONDAY 16 JANUARY
9.15 am–10.15 am



TIME

1 hour.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.

Answer **all fifteen** questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

You **must not** use a calculator for this paper.

INFORMATION FOR CANDIDATES

The total mark for this paper is 56.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

You should have a ruler, compasses, set-square and protractor.

The Formula Sheet is on page 2.

For Examiner's
use only

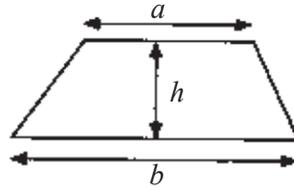
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

Total
Marks

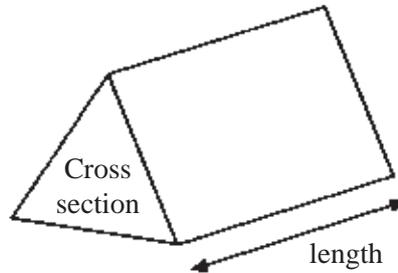
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Formula Sheet

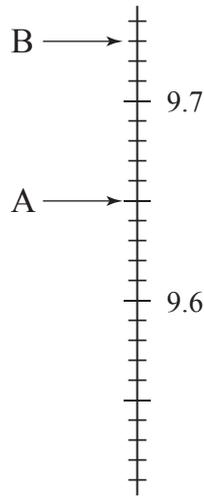
Area of trapezium = $\frac{1}{2}(a+b)h$



Volume of prism = area of cross section \times length



1



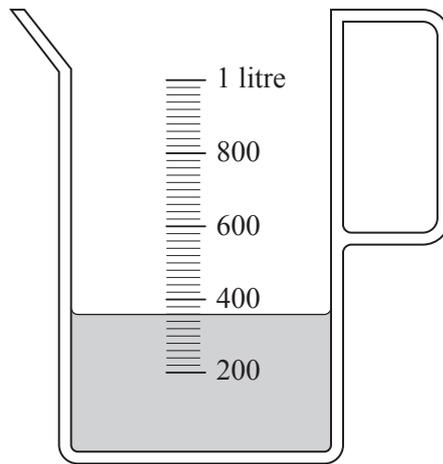
(a) (i) What is the scale reading shown by arrow A?

Answer _____ [1]

(ii) What is the difference between the scale readings of A and B?

Answer _____ [2]

(b)



(i) How many millilitres of water are in the jug?

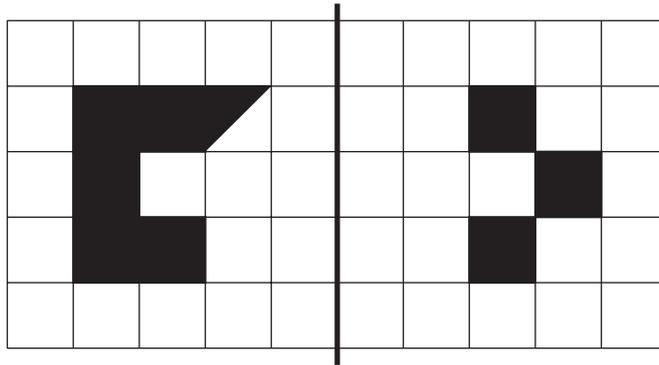
Answer _____ ml [1]

(ii) Another 240 millilitres of water are added to the jug. Shade to show the level of water now in the jug.

[1]

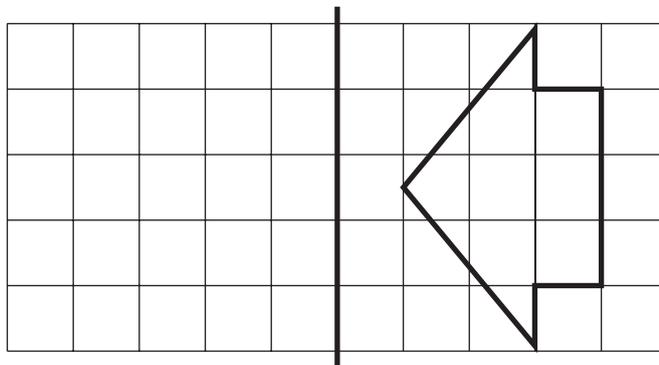
Examiner Only	
Marks	Remark

2 (a) Complete the reflection of the shape in the mirror line.



[2]

(b) Draw the reflection of the shape in the mirror line.



[2]

3

Impossible	Unlikely	Evens	Likely	Certain
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Choose a word from the box which best describes the likelihood of each of these events.

(a) The next baby to be born in the world will be a girl.

Answer _____ [1]

(b) The next person you meet will be left-handed.

Answer _____ [1]

Examiner Only	
Marks	Remark

5 (a) Estimate 98×7.1

Answer _____ [2]

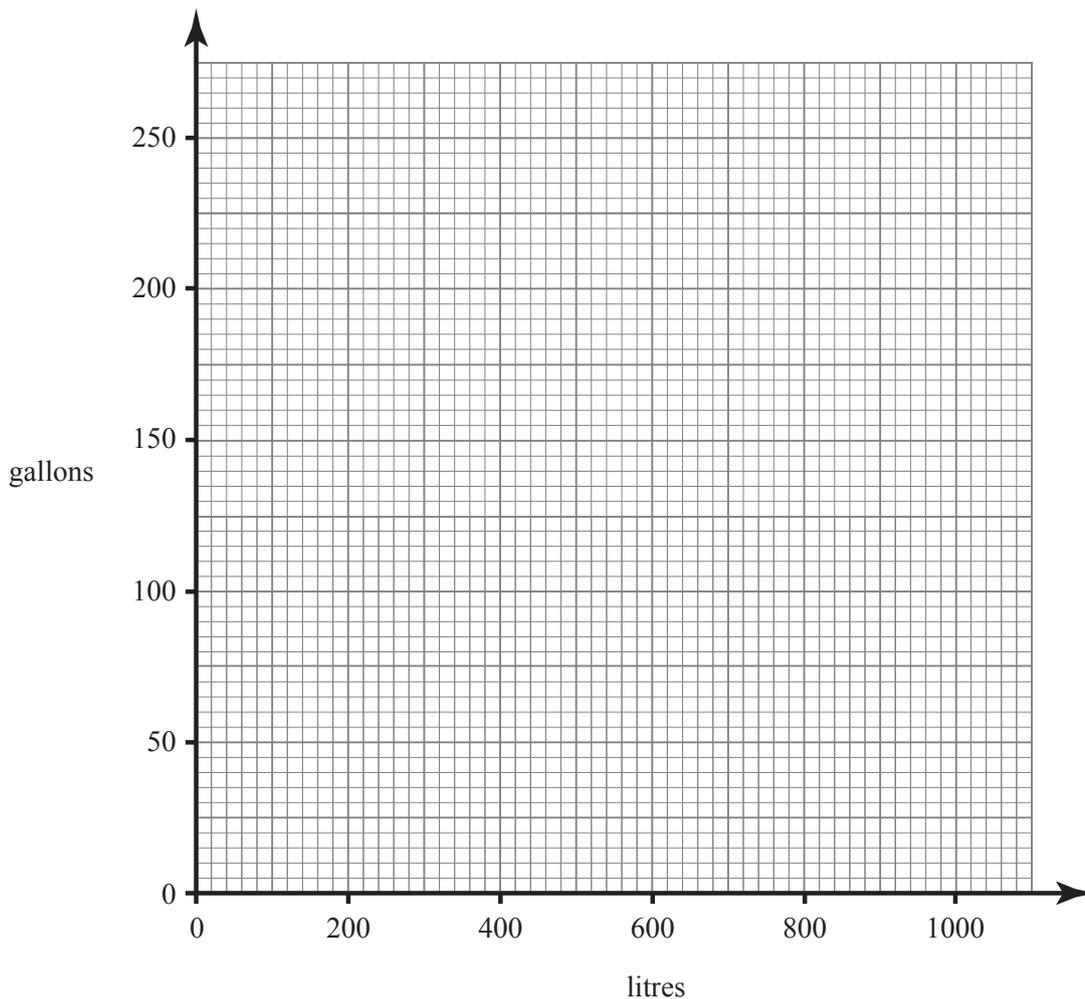
(b) Estimate how many packets of crisps costing 38p each could be bought for £4.

Answer _____ packets [2]

6 Oil is sold in litres or gallons.

Litres	0	500	1000
Gallons	0	110	220

(a) Use the values in the table to draw the conversion graph on the grid below.



[3]

(b) Use your graph to convert 100 gallons to litres.

Answer _____ litres [1]

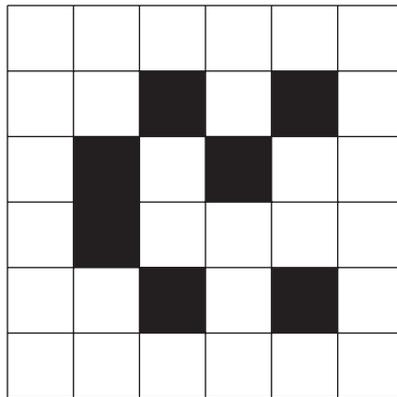
(c) Alan bought 750 litres of oil and Brian bought 150 gallons of oil.

Who bought more oil? Give a reason for your answer.

Answer _____ because _____

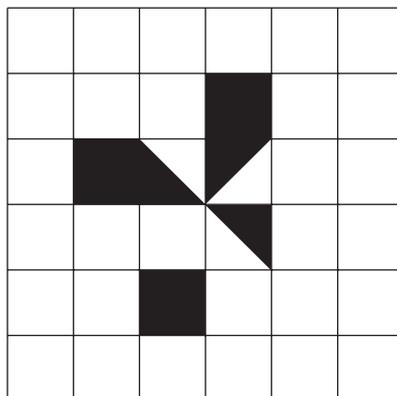
_____ [2]

7 (a) Shade **one** more square so that the pattern has only one line of symmetry.



[1]

(b) Shade **one more triangle** and **one more square** so that the shape has rotational symmetry of order 4.



[2]

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