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General Certificate of Secondary Education  
January 2012

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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.

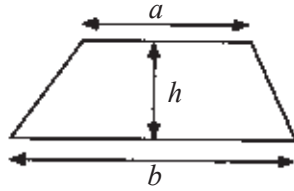


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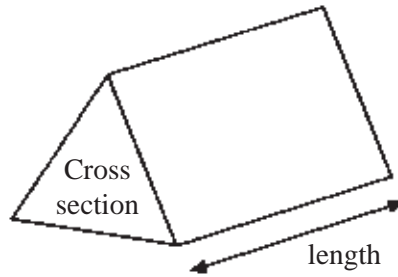
For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
<b>Total Marks</b>	

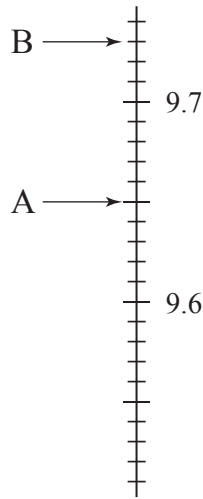
# Formula Sheet

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



$$\text{Volume of prism} = \text{area of cross section} \times \text{length}$$





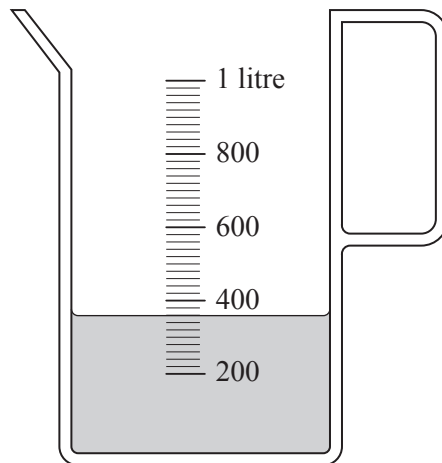
(a) (i) What is the scale reading shown by arrow A?

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?

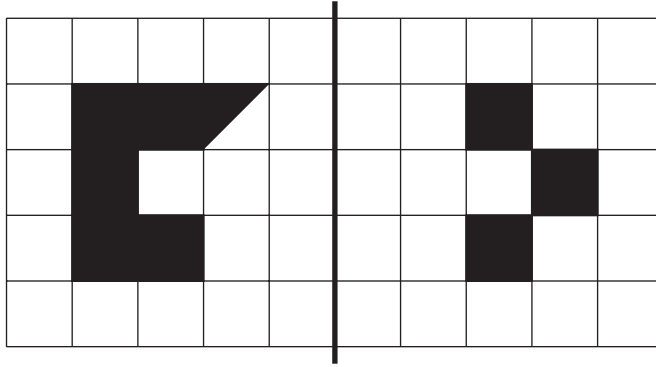
Answer \_\_\_\_\_ ml [1]

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

[1]

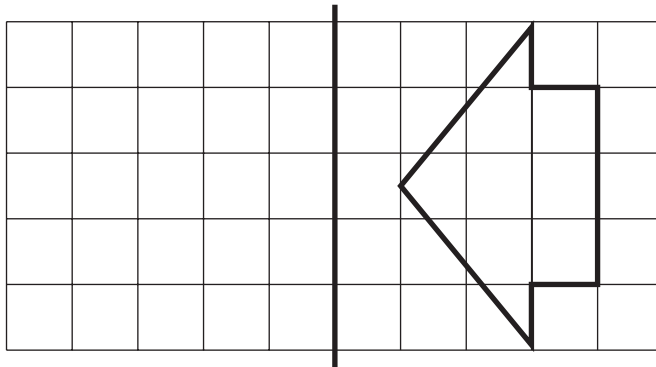
Examiner Only	
Marks	Remark

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

<b>Impossible</b>	<b>Unlikely</b>	<b>Evans</b>	<b>Likely</b>	<b>Certain</b>
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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





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

Answer \_\_\_\_\_ litres [1]

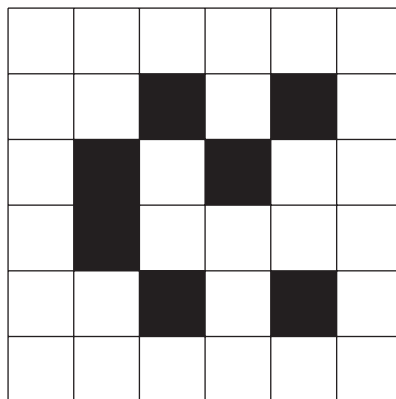
(c) Alan bought 750 litres of oil and Brian bought 150 gallons of oil.

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

Answer \_\_\_\_\_ because \_\_\_\_\_

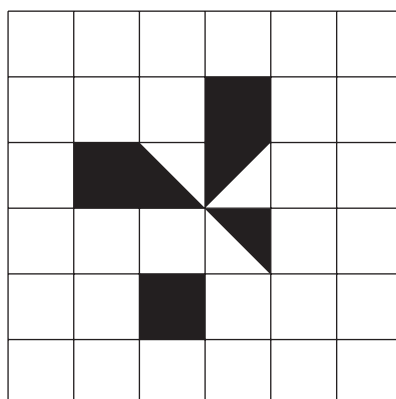
\_\_\_\_\_ [2]

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]

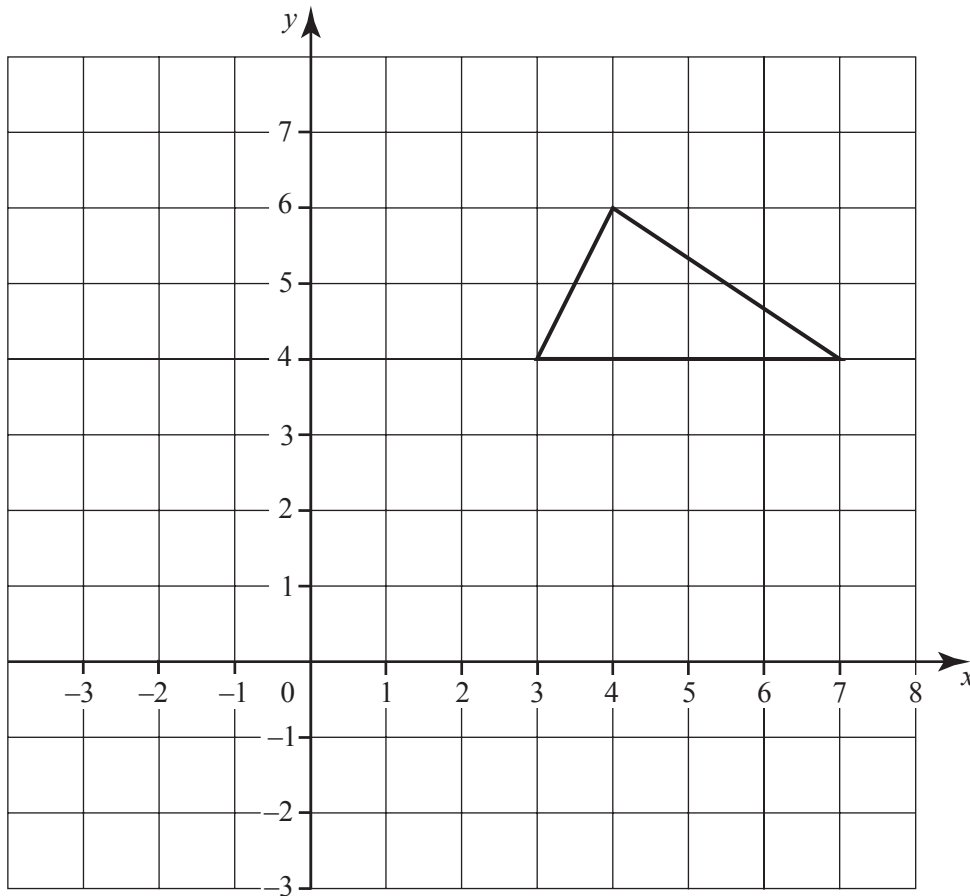
Examiner Only	
Marks	Remark







12



Draw the image of the triangle after a translation 6 left and 1 up. [2]

Examiner Only	
Marks	Remark

13 (a) Given that  $\frac{1560}{24} = 65$  write down the answer to

(i)  $\frac{1560}{240}$  Answer \_\_\_\_\_ [1]

(ii)  $2.4 \times 6.5$  Answer \_\_\_\_\_ [1]

(b) Estimate  $\frac{213}{0.39}$

Show your working.

Answer \_\_\_\_\_ [2]

(c) Write 0.45555... as a recurring decimal.

Answer \_\_\_\_\_ [1]



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