



Rewarding Learning

General Certificate of Secondary Education
2011

Centre Number

--	--	--	--	--

Candidate Number

--	--	--	--



Mathematics
Module N5 Paper 1
(Non-calculator)
Foundation Tier
[GMN51]



GMN51

MONDAY 6 JUNE
1.30 pm – 2.30 pm

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 sixteen** 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	
16	

Total
Marks

--

Examiner Number

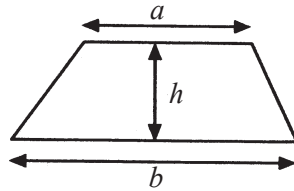
6393



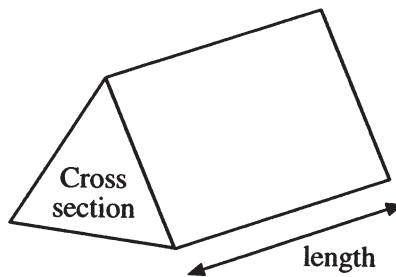
J U N E 1 1 G M N 5 1

Formula Sheet

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

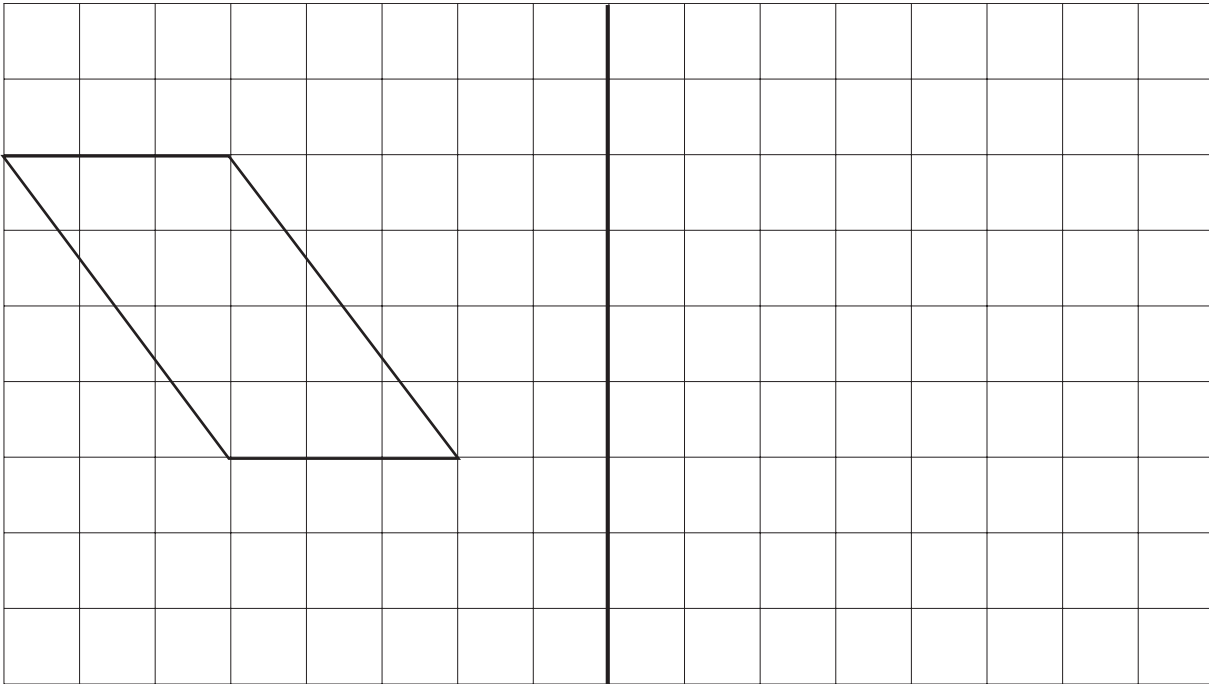


Volume of prism = area of cross section \times length



1 Reflect each of the shapes in the mirror line.

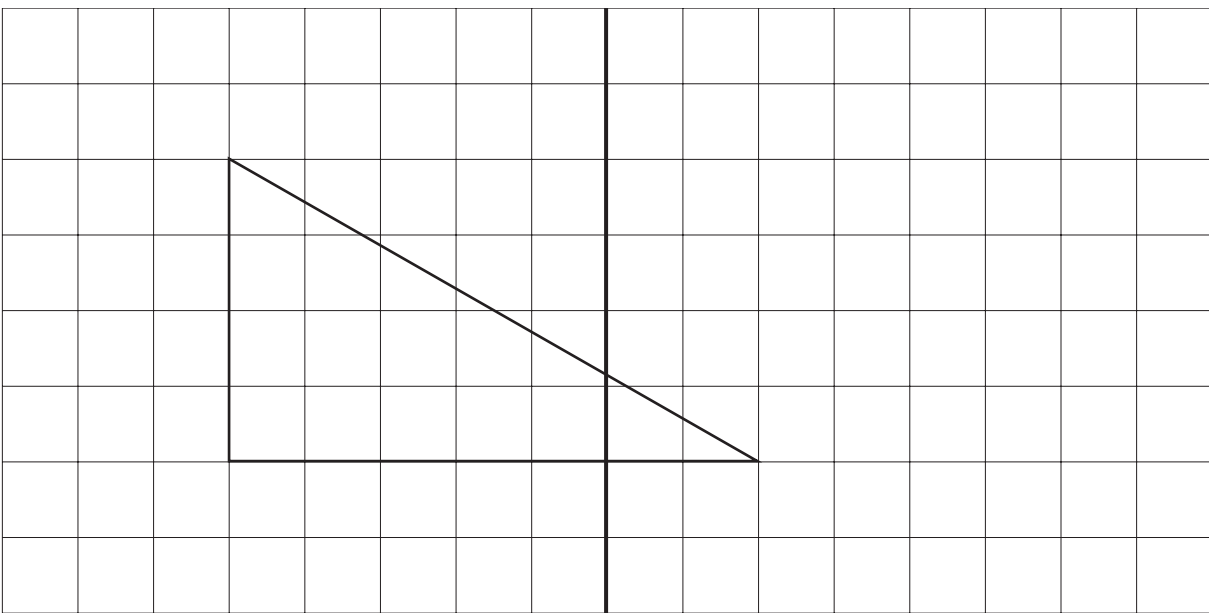
(a)



mirror line

[2]

(b)



mirror line

[2]

Total Question 1	

[Turn over]





Answer _____ m [2]

Answer _____ m² [2]

Answer _____ [1]

Answer _____toys [2]

Examiner Only	
Marks	Remark
Total Question 4	

[Turn over



A gallon is _____ than a litre. [1]

$$\text{Number of gallons} = (\text{Number of litres} \times \text{two}) \div \text{nine}$$

(i) Use the formula to convert 36 litres to gallons.

Answer _____ gallons [2]

(ii) If G is the number of gallons and L is the number of litres write **a formula**, in its simplest form, for G in terms of L.

Answer _____ [3]

Total Question 5

Explain your answer.

Answer _____ because _____

_____ [2]

Total Question 6



Examiner Only



[2]





Examiner Only	
Marks	Remark
Total Question 8	
Total Question 9	

Answer _____ [1]

$$(-45) \div (-9)$$

Answer _____ [1]

$$\frac{29904}{8.4}$$

Answer _____ [1]

Examiner Only	
Marks	Remarks
Total Question 10	



$$y = x - 2$$

-

Equation: _____ [2]

-
- A blank Cartesian coordinate system with a horizontal x-axis and a vertical y-axis intersecting at the origin. The x-axis is labeled 'x' at its right end, and the y-axis is labeled 'y' at its top end. There are no tick marks or grid lines.

Examiner Only	
Marks	Remark
Total Question 11	

[Turn over



FRONT

SIDE

(b) the side elevation.

Examiner Only	
Marks	Remarks
Total Question 12	



A distance-time graph for a car journey. The vertical axis is labeled 'Distance (metres)' and ranges from 0 to 2500 in increments of 500. The horizontal axis is labeled 'Time (seconds)' and ranges from 0 to 500 in increments of 50. The graph consists of three straight line segments: from (0, 0) to (200, 1000), from (200, 1000) to (250, 1000), and from (250, 1000) to (450, 2500).

Time (seconds)	Distance (metres)
0	0
200	1000
250	1000
450	2500

Answer _____ m [1]

Answer _____ m/s [2]

Answer _____ [2]

[Turn over

15 Jack divided marbles between himself and Jill in the ratio 4 : 3

Jack then had 84 marbles.

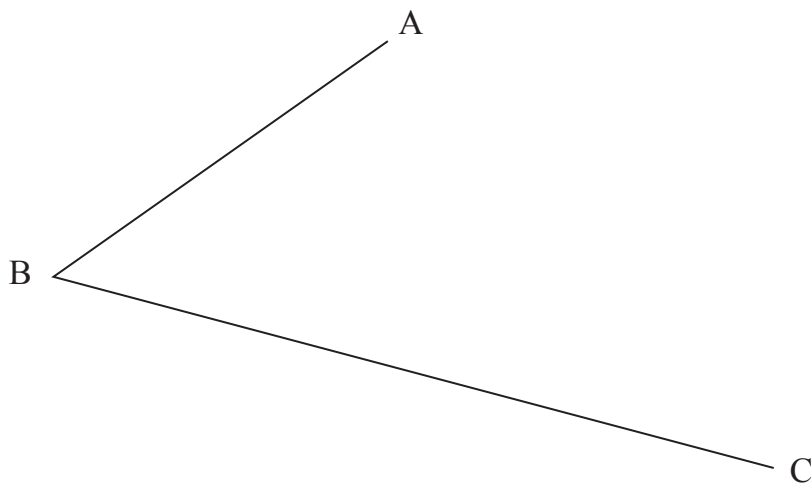
How many marbles were there in total?

Answer _____ [2]

Examiner Only	
Marks	Remark
Total Question 15	
Total Question 16	

16 Use ruler and compasses to construct the bisector of the angle ABC.

You must show all construction lines.



[2]

THIS IS THE END OF THE QUESTION PAPER



PLEASE DO NOT WRITE ON THIS PAGE



PLEASE DO NOT WRITE ON THIS PAGE

Permission to reproduce all copyright material has been applied for.
In some cases, efforts to contact copyright holders may have been unsuccessful and CCEA
will be happy to rectify any omissions of acknowledgement in future if notified.

111334



1 6