



General Certificate of Secondary Education
2009

Mathematics



Module N5 Paper 2
(With calculator)
Foundation Tier
[GMN52]

MONDAY 1 JUNE
10.45 am – 11.45 am



StudentBounty.com

71	
Candidate Number	
<input type="text"/>	

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.

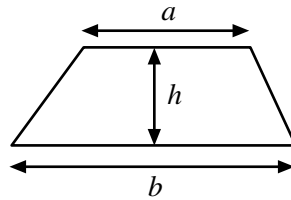
INFORMATION FOR CANDIDATES

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 calculator, ruler, compasses, set-square and protractor.
The Formula Sheet is on page 2.

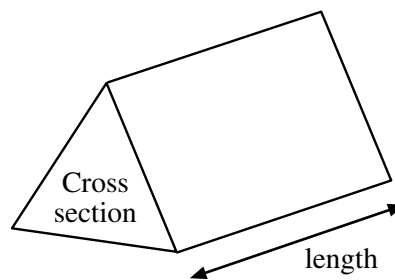
For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
Total Marks	

Formula Sheet

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



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



- 8** Danny wants to buy a TV priced at £899
 On hire purchase he would pay £430 deposit and 40 weekly payments of £15.20
 His sister offers to buy the TV for him if he pays her back £40 per month for two years.
 How much less would he pay in total by the cheaper method?

Answer £_____ [6]

- 9 (a)** Draw lines to match metric to imperial units.

centimetre		pound	
metre		mile	
kilometre	—————	yard	
gram		inch	
kilogram		ounce	[3]

- (b)** A distance of 40 kilometres is approximately how many miles?

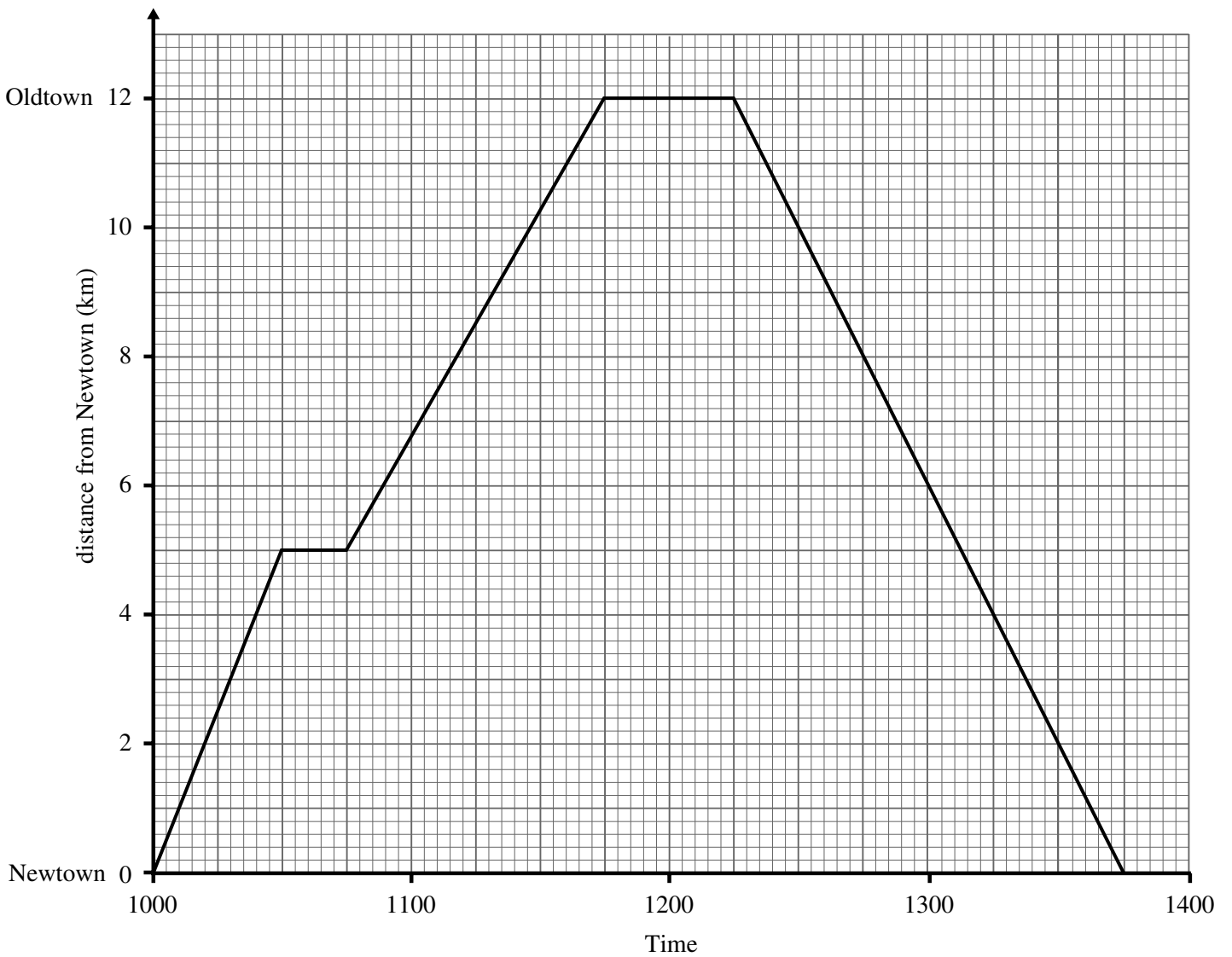
Answer _____ miles [2]

- (c)** A jug holds 7 pints of water when full. How many litres of water does the jug hold when full?

Answer _____ litres [2]

Examiner Only	
Marks	Remark

11 An athlete goes for a run from Newtown to Oldtown and back. His journey is illustrated on the graph.



(a) What is happening between 1030 and 1045?

Answer _____ [1]

(b) How far has the athlete run in total?

Answer _____ km [1]

(c) What is the athlete's speed on the return journey from Oldtown to Newtown?

Answer _____ km/hr [2]

Examiner Only	
Marks	Remark

12 A four-sided spinner has the numbers 1, 3, 5, 7 written on it. The probability of getting each number is the same.
 A fair dice has the numbers 2, 4, 6, 8, 10, 12 written on it.
 In a game the spinner is spun and the dice rolled and their scores are added together.

(a) Use the two-way table to show all the outcomes for the sum of the two scores.

+	2	4	6	8	10	12
1						
3						
5						
7						

[2]

(b) What is the probability that the sum of the two scores is greater than 14?

Answer _____ [2]

13 A bag of 25 potatoes selected at random in a store has 4 bad potatoes.
 How many potatoes are expected to be bad out of a bag of 200 potatoes?

Answer _____ [2]

14 To feed 30 people John makes

- 20 beef sandwiches
- 36 cheese sandwiches
- 52 ham sandwiches

How many of each would he need to make for 45 people?

Answer beef _____

cheese _____

ham _____ [3]

15 Simplify

(a) $t^3 \times t^3$

Answer _____ [1]

(b) $r^6 \div r^2$

Answer _____ [1]

16 £180 is divided between Lisa, Mikey and Richard in the ratio 8 : 1 : 6
How much does each get?

Answer Lisa £ _____

Mikey £ _____

Richard £ _____ [3]

Examiner Only	
Marks	Remark

THIS IS THE END OF THE QUESTION PAPER

