



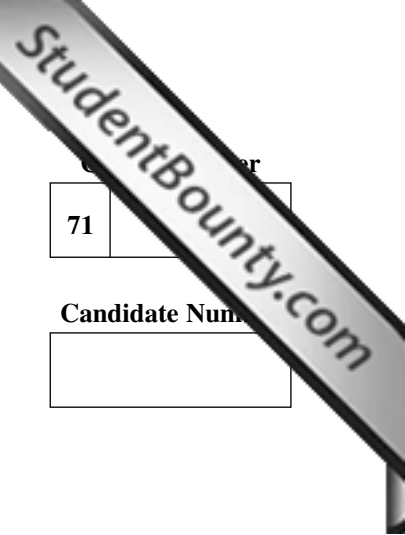
General Certificate of Secondary Education
January 2010

Mathematics



Module N2 Paper 2
(With calculator)
Foundation Tier
[GMN22]

TUESDAY 12 JANUARY
10.30 am – 11.15 am



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

TIME

45 minutes.

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

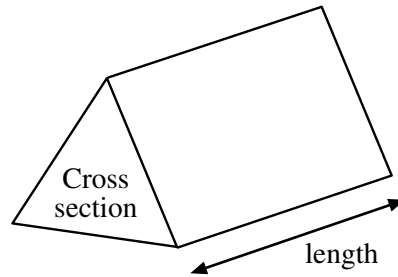
INFORMATION FOR CANDIDATES

The total mark for this paper is 44.
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	
Total Marks	

Formula Sheet

Volume of prism = area of cross section \times length



6 (a) Find the cube root of 35 correct to two significant figures.

Answer _____ [2]

(b) Calculate $\frac{4.3 \times 3.9}{7.8 - 1.9}$ correct to one decimal place.

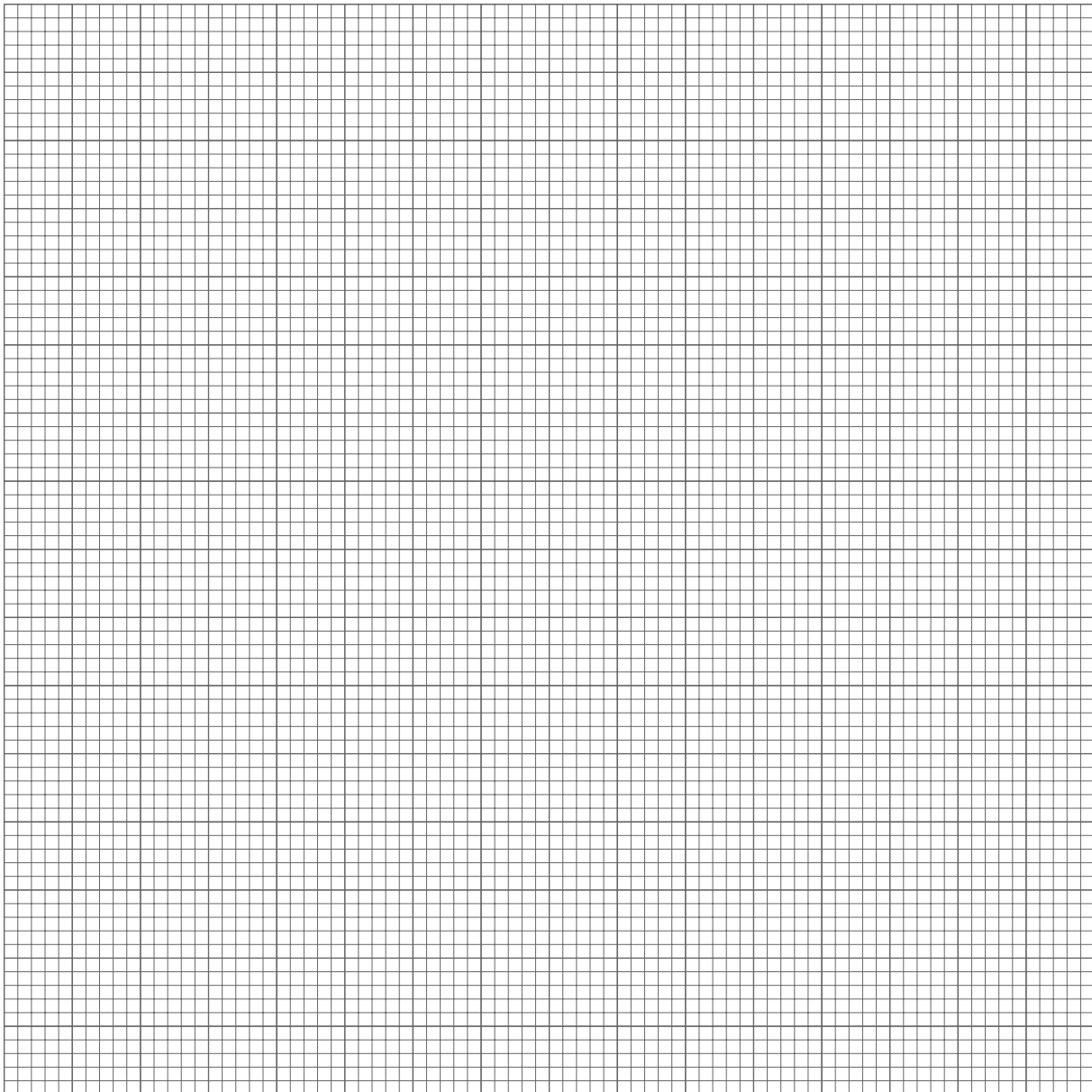
Answer _____ [2]

Examiner Only	
Marks	Remark

- 7 Penny recorded the play time of each of the tracks on her iPod.
The results are shown in the table below.

Time (t seconds)	$90 < t \leq 120$	$120 < t \leq 150$	$150 < t \leq 180$	$180 < t \leq 210$	$210 < t \leq 240$
Frequency	22	35	18	10	6

- (a) Show this information on a grouped frequency diagram.



[3]

- (b) What is the modal class interval?

Answer _____ [1]

Examiner Only	
Marks	Remark

- 12 The size of the angles, in degrees, of the triangle below are $2x$, $2x + 19$ and $x + 16$

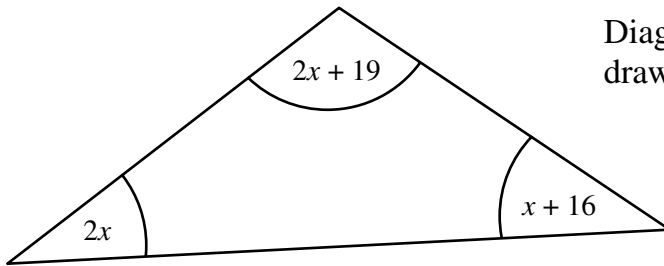


Diagram not
drawn accurately

- (a) Use the information to write down an equation in terms of x .

Answer _____ [1]

- (b) Solve your equation to find the value of x .

Answer $x =$ _____ [2]

Examiner Only	
Marks	Remark

THIS IS THE END OF THE QUESTION PAPER
