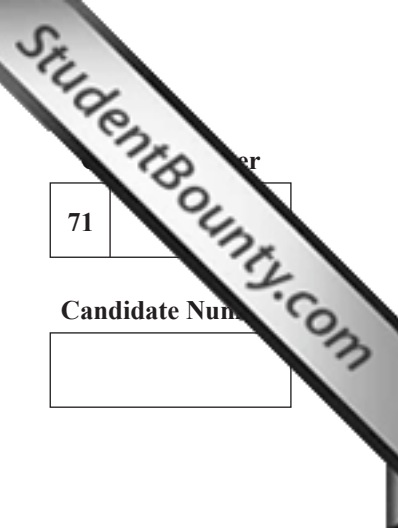




Rewarding Learning

General Certificate of Secondary Education
January 2012



71

Candidate Number

Mathematics

Module N2 Paper 1
(Non-calculator)
Foundation Tier



[GMN21]

WEDNESDAY 11 JANUARY
9.15 am – 10.00 am



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

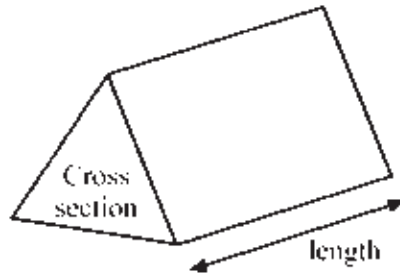


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For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
Total Marks	

Formula Sheet

Volume of prism = area of cross section \times length

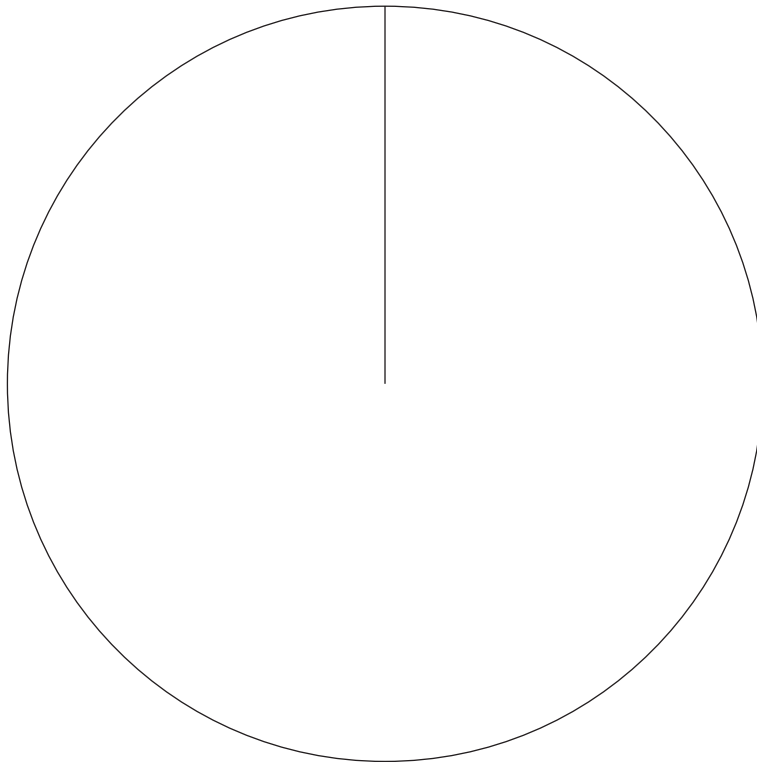


- 1 A travel agency recorded the types of holiday which were booked on a particular week.

The table below shows the results.

Type of Holiday	Frequency	Degrees
Bed & Breakfast	20	
Hotel half-board	22	
Self-catering	6	
Camping	12	

Complete an accurate pie chart below to show this information.



[4]

Examiner Only	
Marks	Remark

2 Solve the equations

(a) $9x - 5 = 58$

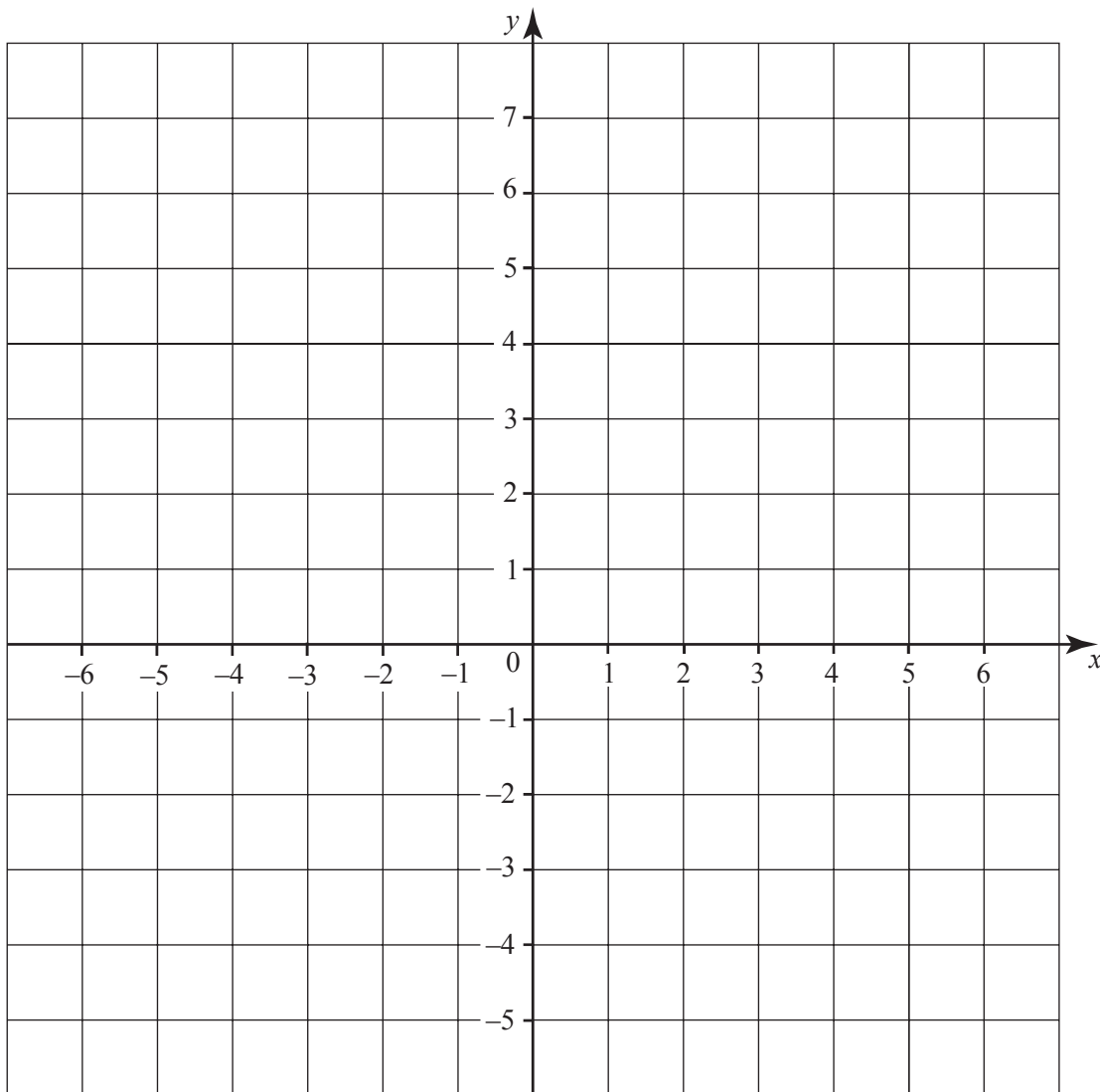
Answer $x =$ _____ [2]

(b) $\frac{x}{8} = 3$

Answer $x =$ _____ [1]

Examiner Only	
Marks	Remark

3



Draw the line $x = 5$ on the grid above.

[1]

--	--

4 A group of students take class tests in both English and Mathematics.

Each test is marked out of 50.

The stem and leaf diagrams below show the distribution of marks for both tests.

	English		Mathematics
0		0	9
1	2 5 6 9	1	0 1 2 6 7
2	3 6 7 7 8	2	1 3 4 5 7 8 8
3	0 2 4 5 5	3	2 5 7 9
4	1 2 2 3 6	4	1 4 8
5	0	5	

Key: 2 | 5 means 25

(a) Which subject has the bigger range of marks and by how much?

Answer _____ has the bigger range by _____ [2]

(b) Which subject has the bigger median mark and by how much?

Answer _____ has the bigger median mark by _____ [2]

Examiner Only

Marks Remark

(b) A square just touches an equilateral triangle as shown.

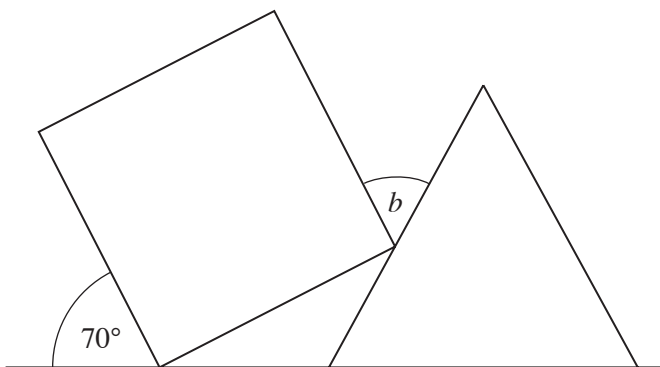


Diagram not drawn accurately

Calculate the size of angle b .

Answer $b = \underline{\hspace{2cm}}^\circ$ [3]

(c) AB is parallel to CD . EF is a straight line. $BC = BD$. Angle $ABC = 42^\circ$.

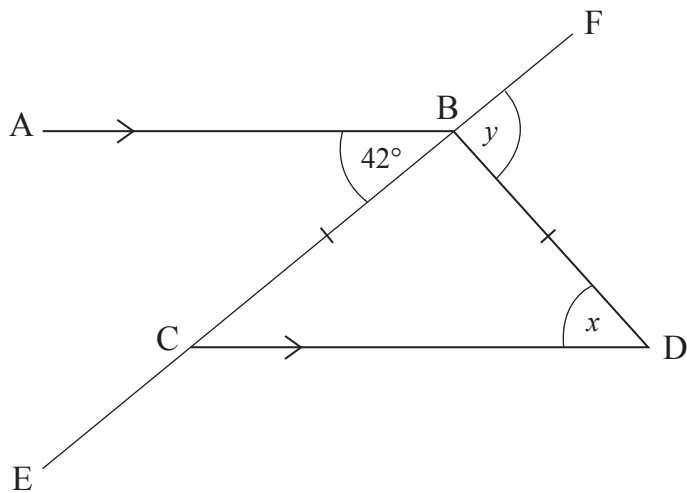


Diagram not drawn accurately

(i) Calculate the size of angle x .

Answer $x = \underline{\hspace{2cm}}^\circ$ [1]

(ii) Calculate the size of angle y .

Answer $y = \underline{\hspace{2cm}}^\circ$ [2]

Examiner Only	
Marks	Remark

- 11 From a large bottle containing $2\frac{1}{2}$ litres of lemonade, a girl pours four full glasses each holding $\frac{2}{5}$ litre.

How many **more** full glasses can she pour before running short of lemonade?

Answer _____ [3]

THIS IS THE END OF THE QUESTION PAPER

Examiner Only	
Marks	Remark

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