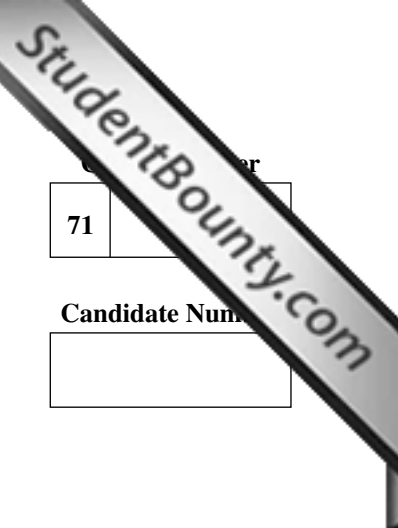




Rewarding Learning

General Certificate of Secondary Education

January 2009



71

Candidate Number

Mathematics



Module N2 Paper 2
(With calculator)
Foundation Tier

[GMN22]



GMN22

FRIDAY 9 JANUARY

10.30 am – 11.15 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 fourteen** 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.

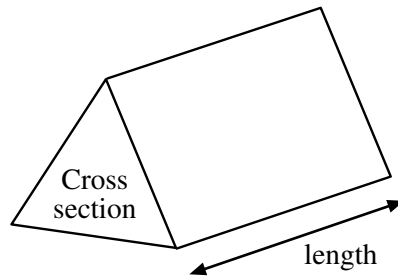
For Examiner's use only

Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	

Total Marks	
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Formula Sheet

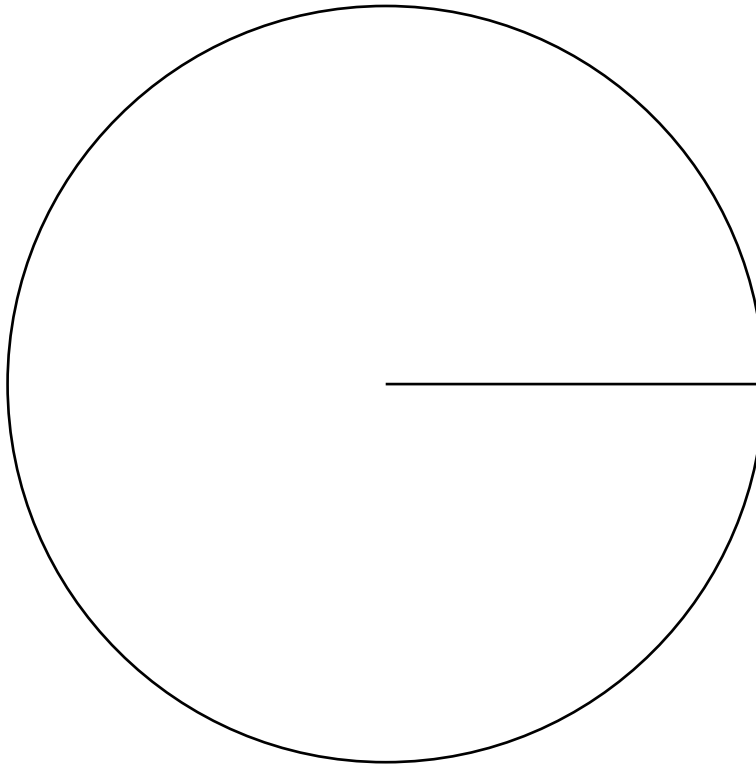
Volume of prism = area of cross section \times length



- 1 The table below gives the estimated population of each of five countries in the year 2000.

Draw a pie chart to illustrate this information.

Country	Population (millions)
N. Ireland	1.6
Wales	2.7
Republic of Ireland	3.9
Scotland	5.0
England	46.8



[4]

Examiner Only	
Marks	Remark

2 (a) Simplify $4x - 3y + 5y - x$

Answer _____ [2]

(b) Write down the next term in the sequence

22, 15, 8, 1, ...

Answer _____ [1]

Examiner Only	
Marks	Remark

5 Calculate

(a) (i) the cube of 6

Answer _____ [1]

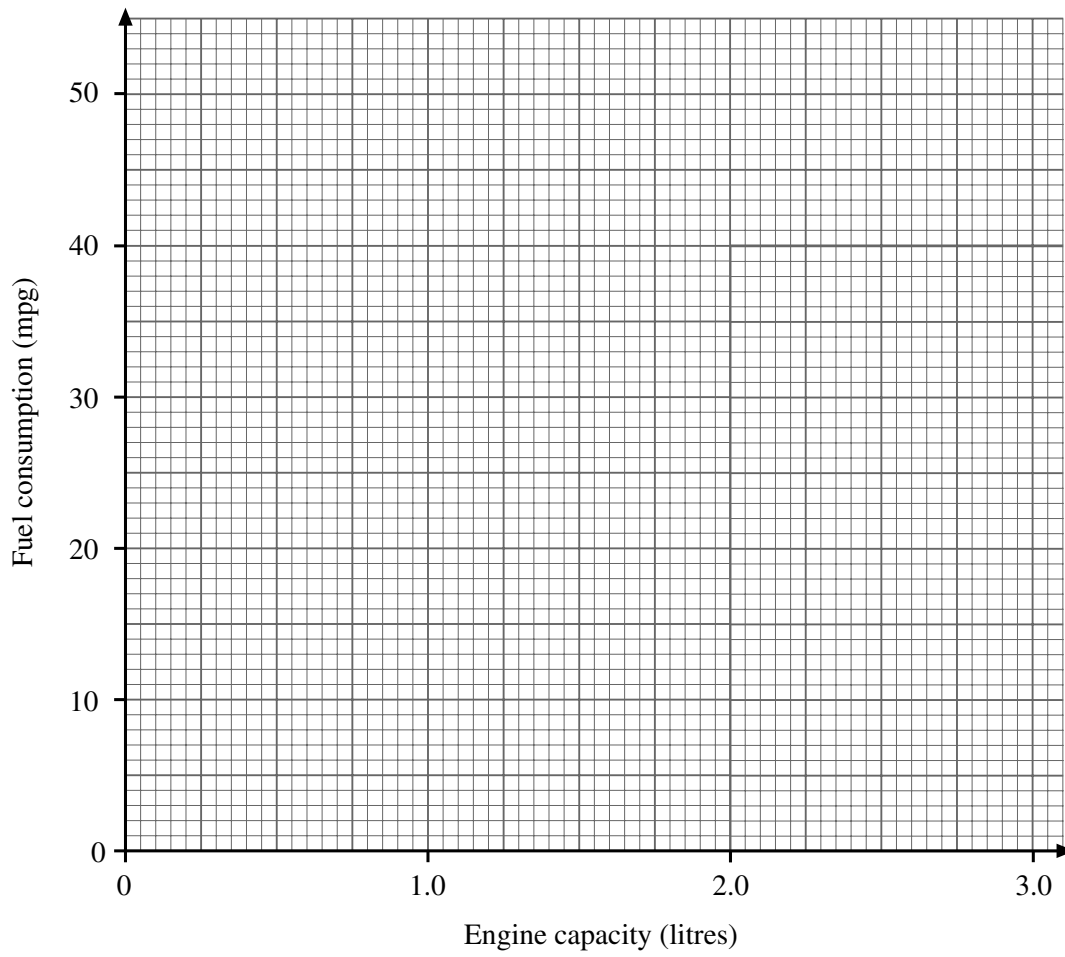
(ii) 2^4

Answer _____ [1]

(b) Write 34.56 correct to three significant figures.

Answer _____ [1]

Examiner Only	
Marks	Remark



9

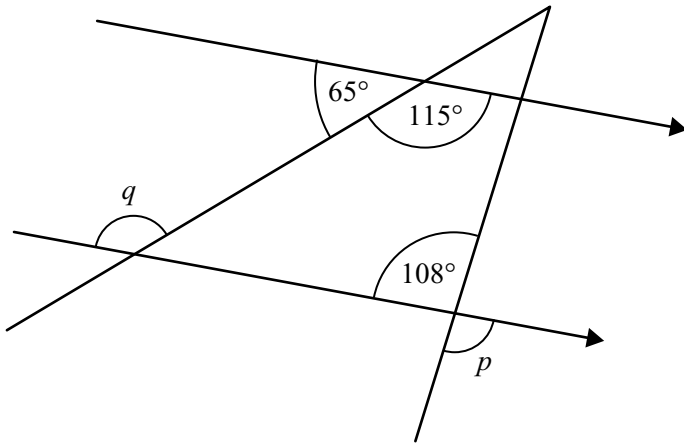


Diagram not drawn accurately

Calculate

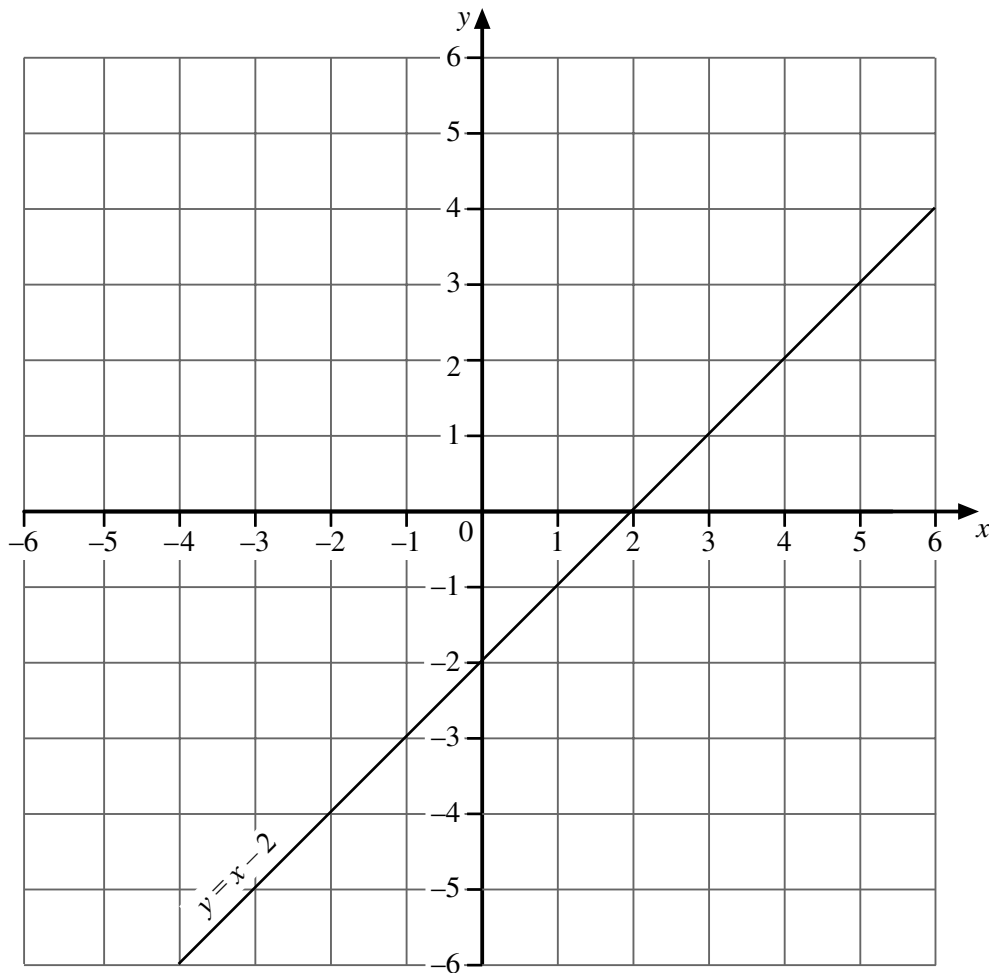
(a) angle p

Answer _____° [1]

(b) angle q

Answer _____° [1]

Examiner Only	
Marks	Remark



The line $y = x - 2$ has been drawn on the grid.

(a) Draw the line $y = \frac{1}{2}x + 1$ on the same grid. [3]

(b) Write down the coordinates of the point of intersection of the two lines.

Answer (____, ____) [1]

Examiner Only	
Marks	Remark

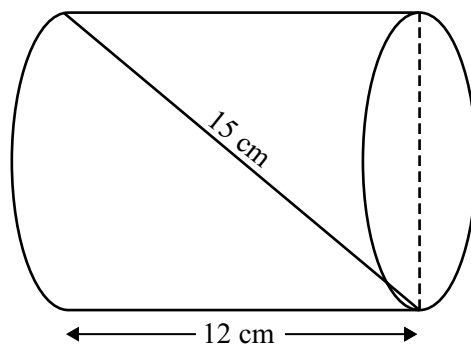
13 The interior angle of a regular polygon is 135°

How many sides has the polygon?

Show your working.

Answer _____ [2]

14



A straw of length 15 cm just fits inside a cylindrical container of length 12 cm as shown. Calculate the diameter of the cylinder.

Answer _____ cm [3]

THIS IS THE END OF THE QUESTION PAPER

Examiner Only	
Marks	Remark

