Centre No.						Paper Reference							Surname	Initial(s)
Candidate No.						5	5	1	2	/	12	B	Signature	

Paper Reference(s)

5512/12B

Examiner's use only

Team Leader's use only

Edexcel GCSE

Mathematics B – 1388

Paper 12 – Section B (Calculator)

Intermediate Tier

Module Test 2

Thursday 8 March 2007 – Afternoon

Time for Section B: 25 minutes

Materials required for examination
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Items included with question papers
Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature.
Check that you have the correct question paper.
Answer ALL the questions. Write your answers in the spaces provided in this question paper.
You must NOT write on the formulae page. Anything you write on the formulae page will gain NO credit.
If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. **(2)**.
This section has 7 questions. The total mark for this section is 19. The total mark for this paper is 38.
There are 8 pages in this question paper. Any blank pages are indicated.
Calculators may be used for Section B only.
If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Advice to Candidates

Show all stages in any calculations.
Work steadily through the paper. Do not spend too long on one question.
If you cannot answer a question, leave it and attempt the next one.
Return at the end to those you have left out.

This publication may be reproduced only in accordance with Edexcel Limited copyright policy.
©2007 Edexcel Limited.

Printer's Log. No.
N25889A
W850/R1388/57570 6/6/6

N 2 5 8 8 9 A 0 1 0 8

Turn over

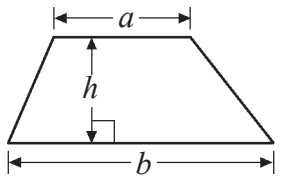
edexcel
advancing learning, changing lives

GCSE Mathematics 1387/8

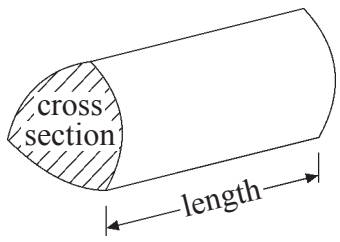
Formulae: Intermediate Tier

You must not write on this formulae page.
Anything you write on this formulae page will gain NO credit.

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



Volume of prism = area of cross section × length



N 2 5 8 8 9 A 0 2 0 8

Leave blank

SECTION B

Answer ALL SEVEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1. (i) Work out the value of

$$(2.5 + 0.9)^2 \div 4.2$$

Write down all the figures on your calculator display.

.....

(ii) Write down your answer to part (i) correct to 1 significant figure.

.....

(Total 3 marks)

Q1

2. The length of a piece of material is 70 cm, correct to the nearest centimetre.

(a) Write down the **least** possible length of the piece of material.

..... cm

(1)

(b) Write down the **greatest** possible length of the piece of material.

..... cm

(1)

Q2

(Total 2 marks)

Leave blank

3. In a survey, 40 students were asked their opinion of school meals.

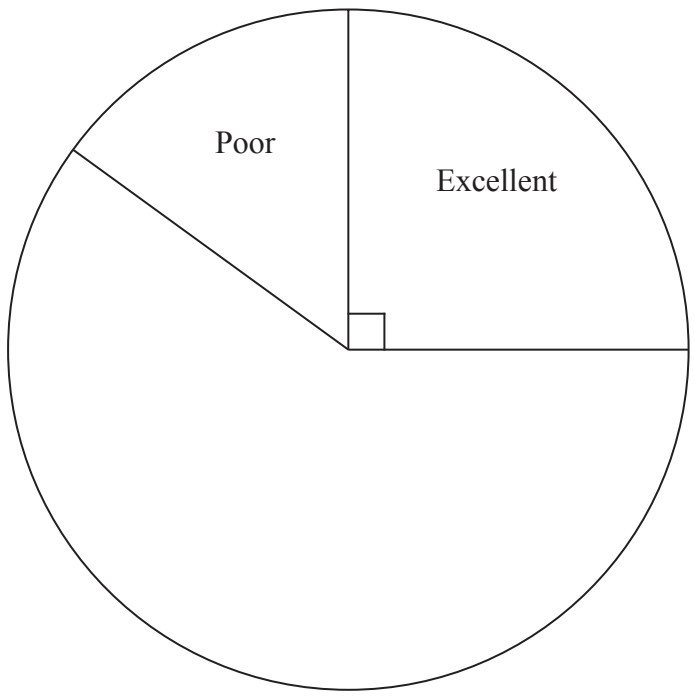
The results are summarised in the table.

Opinion	Frequency	Angle in pie chart
Excellent	10	90°
Good	15	
Fair	9	
Poor	6	54°

(a) Complete the table.

(2)

(b) Draw and label the pie chart.
The angles for Excellent and Poor have been drawn for you.



(2) **Q3**

(Total 4 marks)

N 2 5 8 8 9 A 0 4 0 8

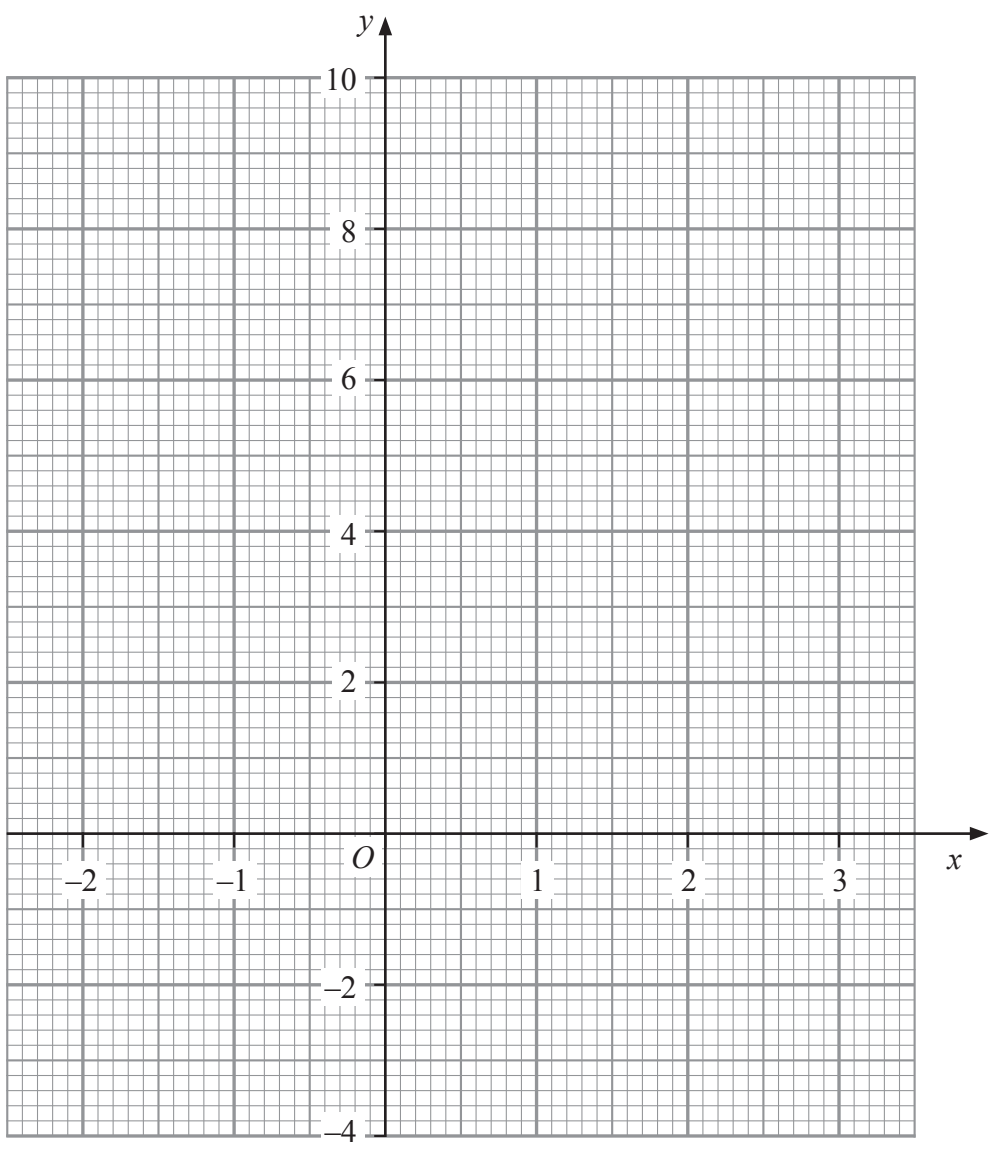
Leave blank

4. (a) Complete the table of values for $y = 2x + 3$

x	–2	–1	0	1	2	3
y		1				9

(2)

(b) On the grid, draw the graph of $y = 2x + 3$



(2)

Q4

(Total 4 marks)

Leave blank

5.

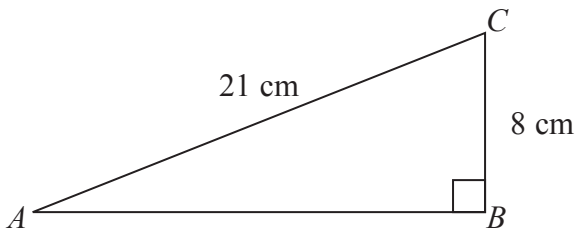


Diagram **NOT** accurately drawn

In triangle ABC,
angle $ABC = 90°$,
$BC = 8$ cm,
$AC = 21$ cm.

Work out the length of AB.
Give your answer correct to 3 significant figures.

..... cm

(Total 3 marks)

Q5

6. (a) Write 0.0389 in standard form.

.....

(1)

(b) Write 2.8571×10^3 as an ordinary number.

.....

(1)

Q6

(Total 2 marks)

Leave blank

7. The table shows information about the number of hours that 100 people watched television last week.

Number of hours (h)	Frequency
$0 < h \leqslant 4$	8
$4 < h \leqslant 8$	22
$8 < h \leqslant 12$	15
$12 < h \leqslant 16$	37
$16 < h \leqslant 20$	18

Complete the cumulative frequency table.

Number of hours (h)	Cumulative frequency
$0 < h \leqslant 4$	8
$0 < h \leqslant 8$	
$0 < h \leqslant 12$	
$0 < h \leqslant 16$	
$0 < h \leqslant 20$	

Q7

(Total 1 mark)

TOTAL FOR SECTION B: 19 MARKS

TOTAL FOR PAPER: 38 MARKS

END

BLANK PAGE

N25889A0808