

Centre No.						Paper Reference						Surname	Initial(s)	
Candidate No.						5	5	0	9	/	9	B	Signature	

Paper Reference(s)

5509/9B

Edexcel GCSE

Mathematics B – 1388

Paper 9 – Section B (Calculator)

Intermediate Tier

Module Test 1

Thursday 8 March 2007 – Morning

Time for Section B: 25 minutes

Examiner's use only

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Team Leader's use only

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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.

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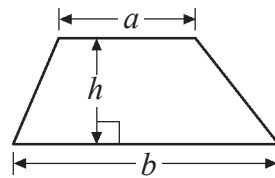
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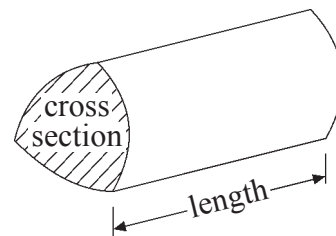
Formulae: Intermediate Tier

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

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



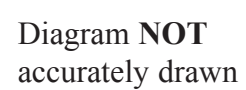
Volume of prism = area of cross section \times length



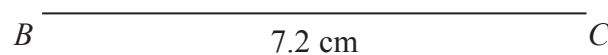


<div>SECTION B</div> <div>Answer ALL SEVEN questions.</div> <div>Write your answers in the spaces provided.</div> <div>You must write down all stages in your working.</div> <div>1. Write these numbers in order of size. Start with the smallest number.</div> <div>30% $\frac{1}{4}$ 0.28 $\frac{3}{8}$</div> <div>.....</div> <div>(Total 2 marks)</div>		<div>Leave blank</div> <div>Q1</div> <div></div>										
<div>2. A box contains sweets which are orange or red or blue or green. Jean takes one sweet at random from the box.</div> <div>The table shows the probability that Jean will take an orange sweet or a red sweet or a green sweet from the box.</div> <table border="1"><tr><td>Colour of sweet</td><td>Orange</td><td>Red</td><td>Blue</td><td>Green</td></tr><tr><td>Probability</td><td>0.1</td><td>0.35</td><td></td><td>0.4</td></tr></table> <div>Work out the probability that Jean will take a blue sweet from the box.</div> <div>.....</div> <div>(Total 2 marks)</div>		Colour of sweet	Orange	Red	Blue	Green	Probability	0.1	0.35		0.4	<div>Q2</div> <div></div>
Colour of sweet	Orange	Red	Blue	Green								
Probability	0.1	0.35		0.4								



Leave
blank

In the space below, make an accurate drawing of triangle ABC .
The line BC has been drawn for you.



(Total 2 marks)

- Q4

(Total 3 marks)

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5.

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blank

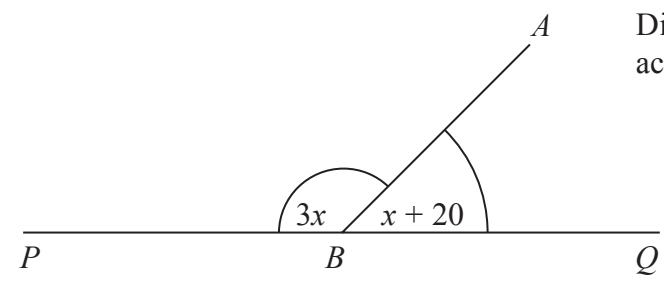


Diagram **NOT**
accurately drawn

PBQ is a straight line.
The diagram shows the sizes of the angles in degrees.

Work out the value of x .

$x = \dots\dots\dots$

Q5

(Total 3 marks)

6. Here are the first five terms of an arithmetic sequence.

2 8 14 20 26

(a) Write down the next two terms of this sequence.

$\dots\dots\dots$
(1)

(b) Write down, in terms of n , an expression for the n th term of this sequence.

$\dots\dots\dots$
(2)

Q6

(Total 3 marks)



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7.

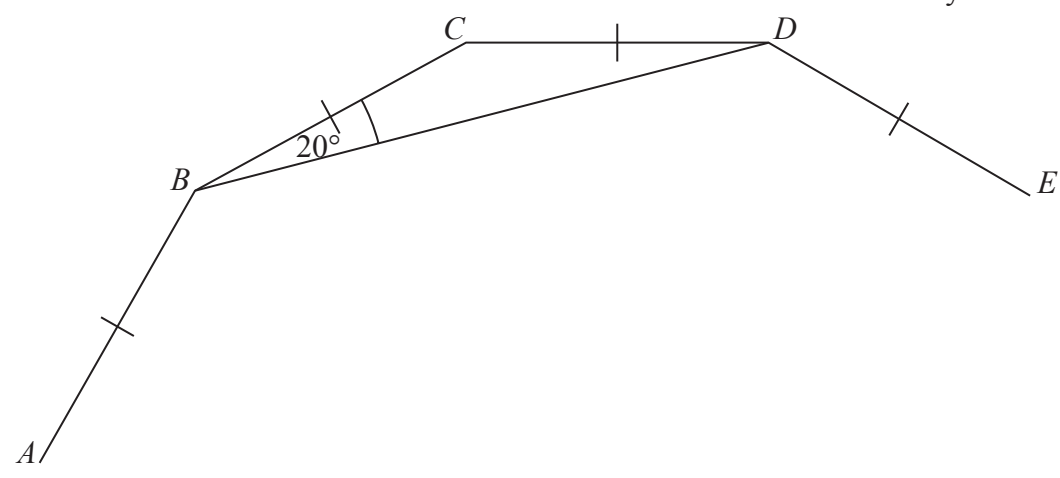


Diagram **NOT**
accurately drawn

AB , BC , CD and DE are four sides of a regular polygon.
Angle $CBD = 20^\circ$.

Work out the number of sides of this polygon.

Leave
blank

.....
(Total 4 marks)

Q7

TOTAL FOR SECTION B: 19 MARKS

TOTAL FOR PAPER: 38 MARKS

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