

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

Paper Reference(s)

5512/12A

Edexcel GCSE

Mathematics B – 1388

Paper 12 – Section A (Non-Calculator)

Intermediate Tier

Module Test 2

Tuesday 7 November 2006 – Afternoon

Time for Section A: 25 minutes

Examiner's use only

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Team Leader's use only

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Section	Leave Blank
A	
B	



Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
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.

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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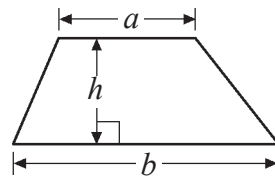
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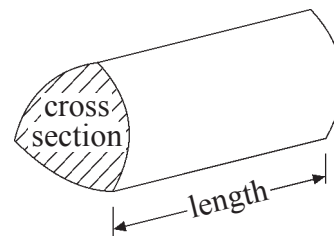
Formulae: Intermediate Tier

**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



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SECTION A

Answer ALL SEVEN questions.

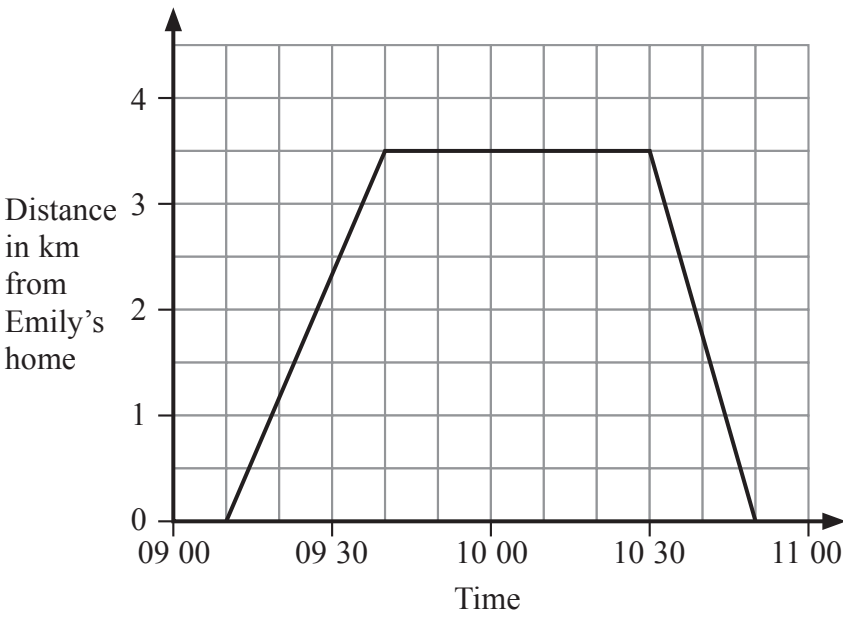
Write your answers in the spaces provided.

You must write down all stages in your working.

You must NOT use a calculator for this section.

1. Emily cycled from her home to a sports centre.
Emily spent some time at the sports centre.
Then she cycled back home.

Here is the distance-time graph for her complete journey.



- (a) What is the distance from Emily's home to the sports centre?

..... km
(1)

- (b) At what time did Emily leave home?

.....
(1)

- (c) How many minutes did Emily spend at the sports centre?

..... minutes
(1)

(Total 3 marks)

Q1



<p>2. A vase of flowers contains only roses and carnations. The ratio of the number of roses to the number of carnations is 4 : 7</p> <p>(a) Write down the fraction of these flowers that are roses.</p> <p>..... (2)</p> <p>A basket of fruit contains only apples and oranges. The ratio of the number of apples to the number of oranges is 1 : 3 The total number of apples and oranges in the basket is 24</p> <p>(b) Work out the number of apples.</p> <p>..... (2)</p> <p>(Total 4 marks)</p>	<p>Leave blank</p> <p>Q2</p> <div></div>
<p>3. $P = a^2 + 5b$</p> <p>$a = -3$ $b = 2$</p> <p>Work out the value of P.</p> <p>$P =$ (Total 2 marks)</p>	<p>Q3</p> <div></div>





4.

On the grid, enlarge the shaded shape by a scale factor of 3.

(Total 2 marks)

Leave blank

Q4



N 2 4 9 4 5 A 0 5 0 8



5. Here are the numbers of books borrowed from a school library on each of 12 days.

41 22 29 17 33 37 42 50 28 19 26 12

Draw an ordered stem and leaf diagram and key to show this information.

1	
2	
3	
4	
5	

Key:

(Total 3 marks)

Q5

6. Factorise $x^2 - 3x - 40$

.....

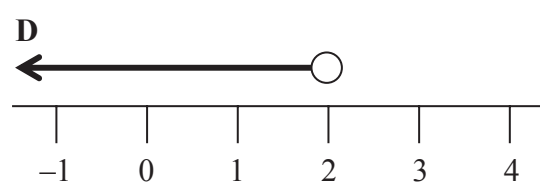
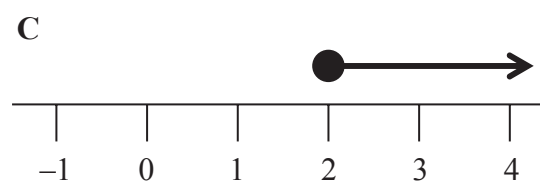
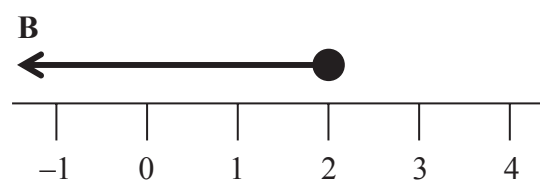
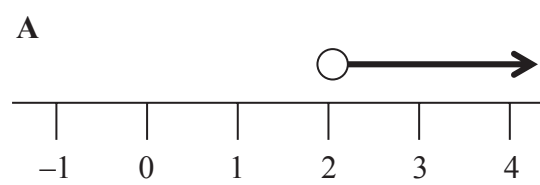
(Total 2 marks)

Q6



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7.



(a) Write down the letter of the diagram which represents $x \leq 2$

.....
(1)

(b) Solve the inequality $4x - 5 < 8$

.....
(2)

(Total 3 marks)

TOTAL FOR SECTION A: 19 MARKS

END

Q7



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