

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

Tuesday 7 November 2006 – 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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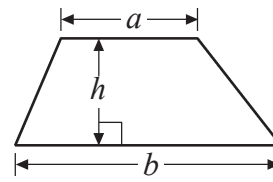
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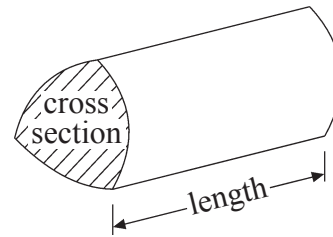
Formulae: Intermediate Tier

**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



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SECTION B

Answer ALL SEVEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1. (a) Simplify $8e + 3e - 2e$

.....
(1)

- (b) Solve $\frac{h}{3} = 7$

$h =$
(1)

(Total 2 marks)

Q1

2. Martin buys a watch for £24
He sells the watch and makes a profit of 15%.

Work out how much he sells the watch for.

£

(Total 3 marks)

Q2



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3. Each day Uzma travels to work.
She can be on time or early or late.

The probability that she will be on time is 0.68
The probability that she will be late is 0.07

Work out the probability that Uzma will be early.

.....
Q3

(Total 2 marks)

4. (a) Expand $x(x + 3)$

.....
(1)

- (b) Factorise $9y - 12$

.....
(1)

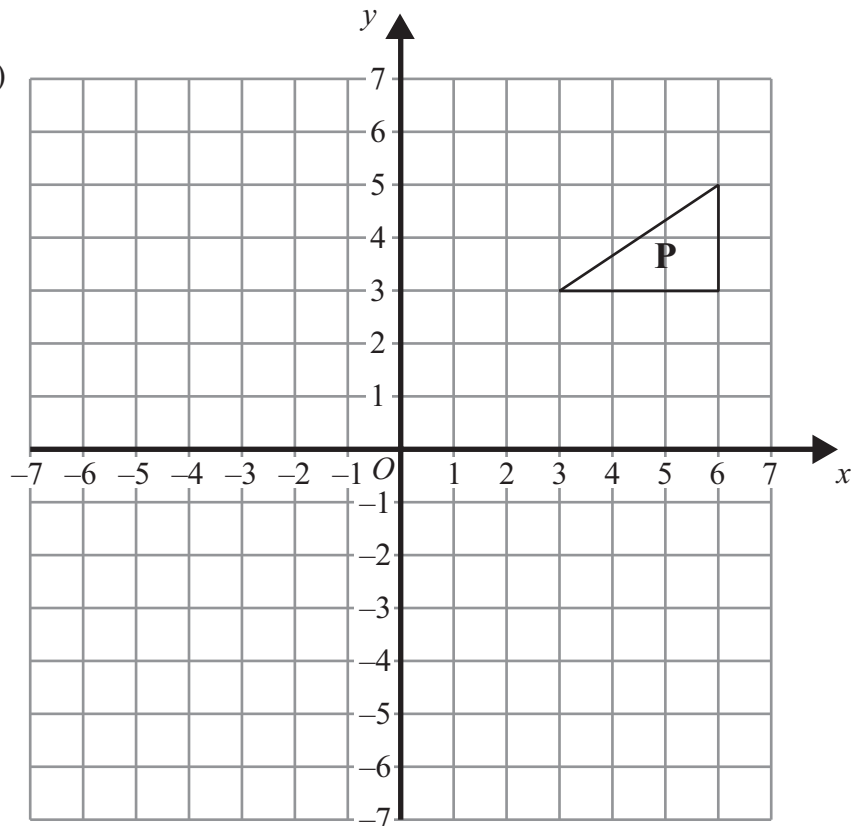
Q4

(Total 2 marks)



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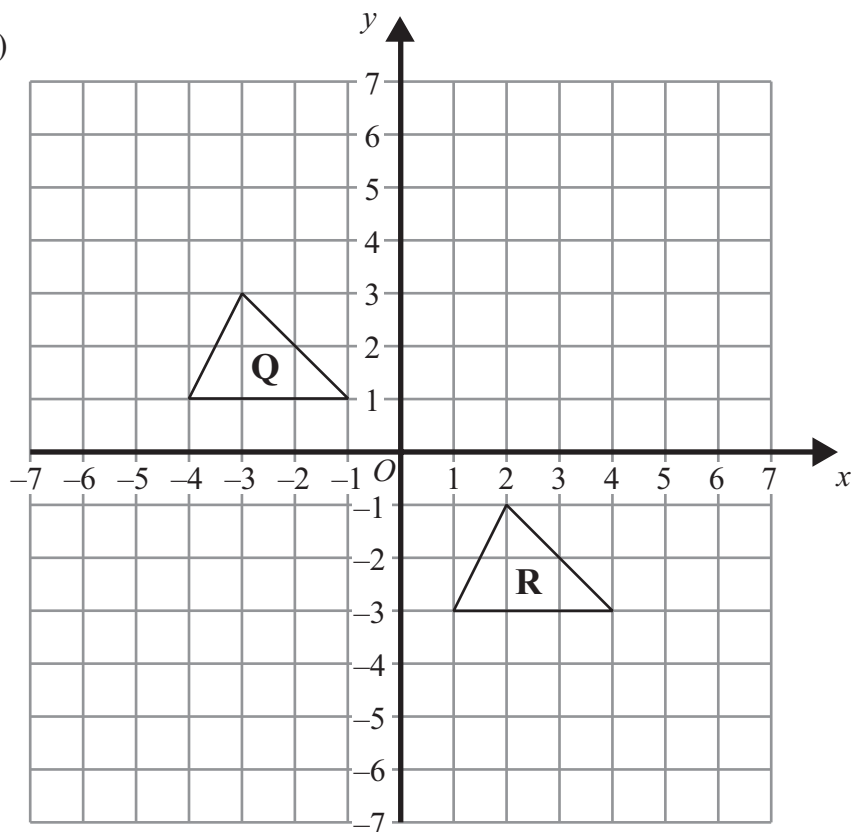
5. (a)



On the grid, reflect triangle **P** in the line $x = 2$

(2)

(b)



Describe fully the **single** transformation that takes triangle **Q** to triangle **R**.

.....
.....

(2)
(Total 4 marks)

Q5



6. Find the Highest Common Factor (HCF) of 45 and 60.

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.....
(Total 2 marks)

Q6



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7.

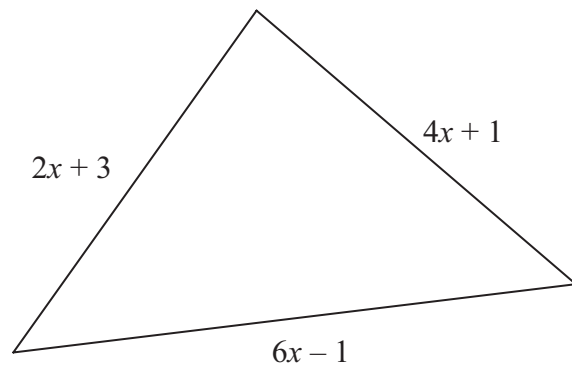


Diagram **NOT**
accurately drawn

All lengths on the diagram are in centimetres.
The perimeter of the triangle is 33 cm.

Work out the value of x .

$x = \dots\dots\dots$

(Total 4 marks)

Q7

TOTAL FOR SECTION B: 19 MARKS

TOTAL FOR PAPER: 38 MARKS

END



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