

Centre No.						Paper Reference					Surname	Initial(s)		
Candidate No.						5	5	1	0	/	10	A	Signature	

Paper Reference(s)

5510/10A

Edexcel GCSE

Mathematics B – 1388

Paper 10 – Section A (Non-Calculator)

Higher Tier

Module Test 1

Tuesday 7 November 2006 – Morning

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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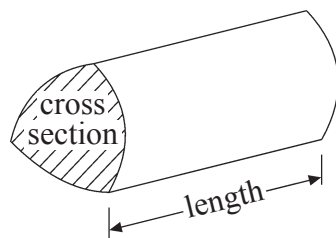
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GCSE Mathematics 1387/8

Formulae: Higher Tier

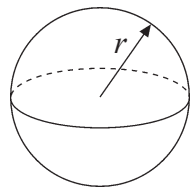
**You must not write on this formulae page.
Anything you write on this formulae page will gain NO credit.**

Volume of a prism = area of cross section \times length



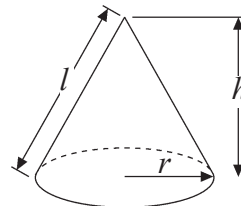
Volume of sphere = $\frac{4}{3}\pi r^3$

Surface area of sphere = $4\pi r^2$

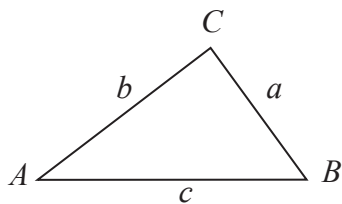


Volume of cone = $\frac{1}{3}\pi r^2 h$

Curved surface area of cone = $\pi r l$



In any triangle ABC



The Quadratic Equation

The solutions of $ax^2 + bx + c = 0$
where $a \neq 0$, are given by

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Sine Rule $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

Cosine Rule $a^2 = b^2 + c^2 - 2bc \cos A$

Area of triangle = $\frac{1}{2}ab \sin C$



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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. Graham and Keith share £300 in the ratio 2 : 3

Work out how much each receives.

Graham £

Keith £

(Total 3 marks)

Q1

2. (a) Simplify $t^8 \div t^5$

.....
(1)

- (b) Simplify $7f^4g^3 \times 2fg^6$

.....
(2)

(Total 3 marks)

Q2



3. Work out $3\frac{4}{15} \div 2\frac{1}{10}$

Give your answer as a fraction in its simplest form.

Leave
blank

.....
(Total 3 marks)

Q3

4. Solve the equation

$$6x + 13 = 4(x - 3)$$

$x =$
(Total 3 marks)

Q4



5. (a) Write 72 300 in standard form.

.....
(1)

(b) Write 9.15×10^{-2} as an ordinary number.

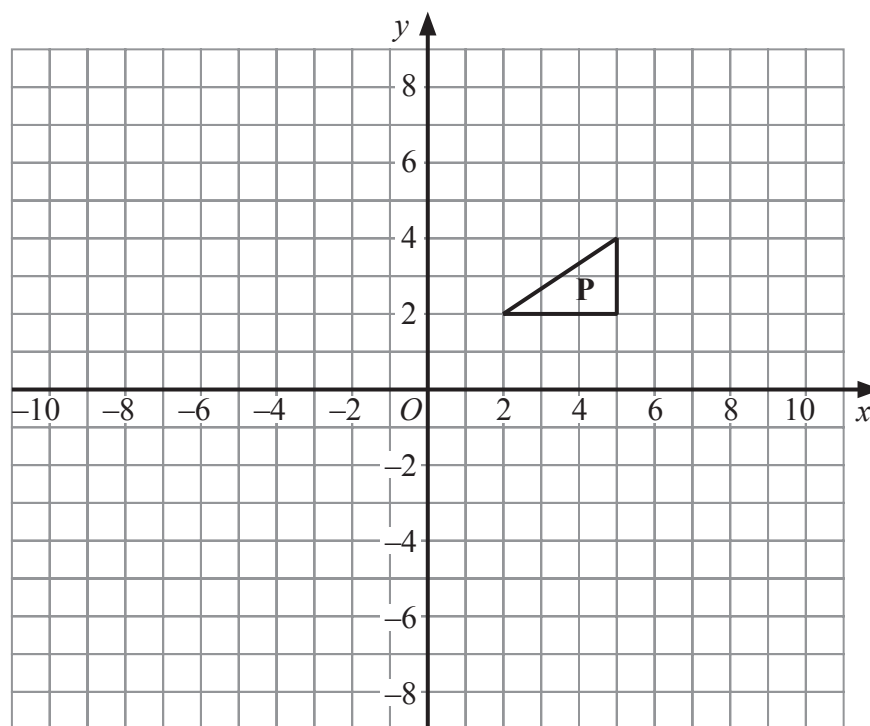
.....
(1)

(Total 2 marks)

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Q5

6.



Enlarge triangle **P** by a scale factor of -2 , centre O .

(Total 2 marks)

Q6

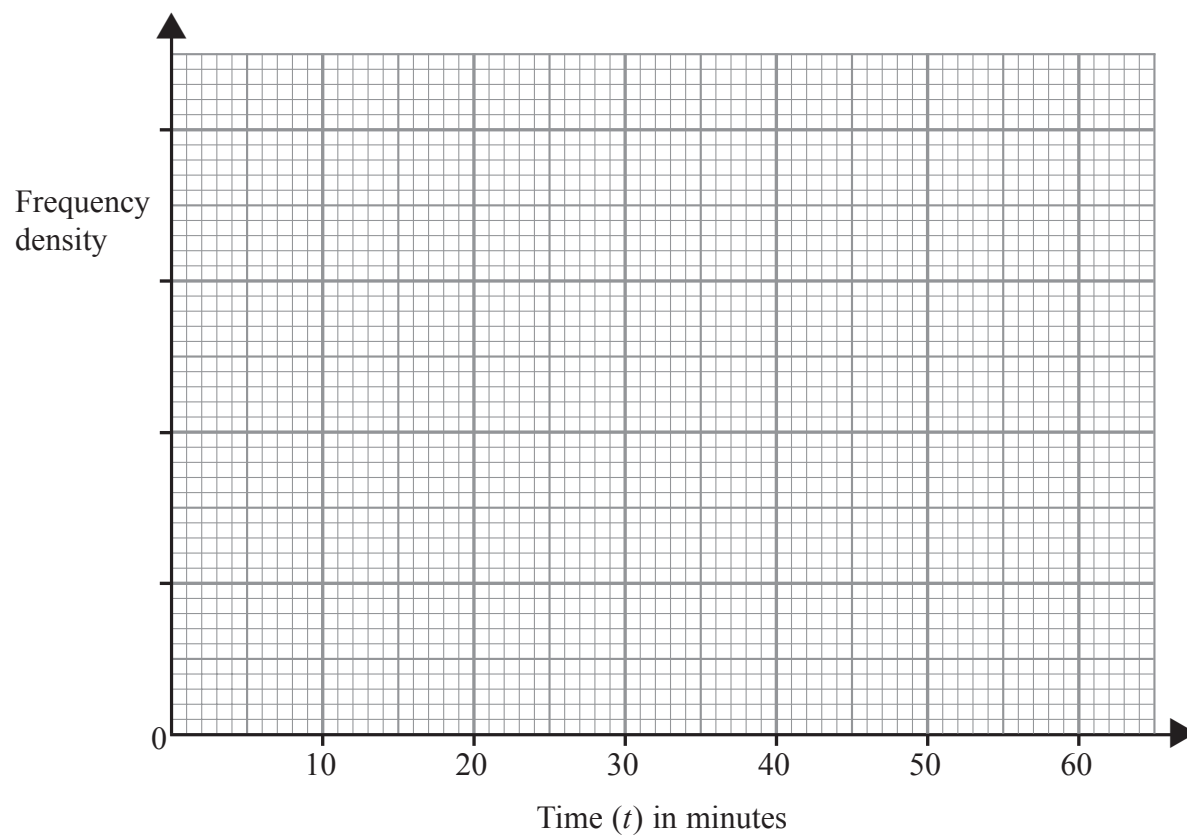


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7. The table gives information about the times, in minutes, some students took to travel to school one day.

Time (t) in minutes	Frequency
$0 < t \leq 25$	50
$25 < t \leq 35$	40
$35 < t \leq 50$	15

Use this information to draw a histogram.



Q7

(Total 3 marks)

TOTAL FOR SECTION A: 19 MARKS

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