

Centre No.						Paper Reference					Surname	Initial(s)			
Candidate No.						5	3	8	3	F	/	0	9	Signature	

Paper Reference(s)

**5383F/09**

**Edexcel GCSE**

**Mathematics (Modular) – 2381**

Paper 9 (Calculator)

**Foundation Tier**

Unit 2 Stage 2

Thursday 11 June 2009 – Afternoon

Time: 30 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).

There are 10 questions in this question paper. The total mark for this paper is 25.

There are 8 pages in this question paper. Any blank pages are indicated.

**Calculators may be used.**

If your calculator does not have a  $\pi$  button, take the value of  $\pi$  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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*Turn over*

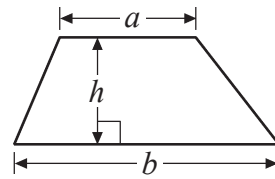
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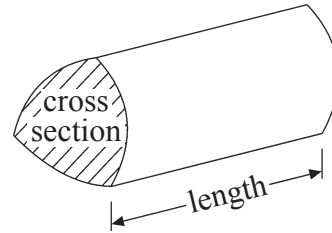
Formulae: Foundation Tier

**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



Leave  
blank

Answer ALL TEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1. (a) Write 25.2 to the nearest whole number.

.....  
(1)

- (b) Write  $\frac{1}{5}$  as a decimal.

.....  
(1)

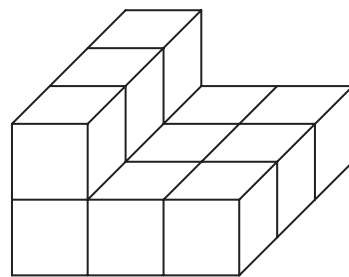
- (c) Write 27% as a fraction.

.....  
(1)

Q1

(Total 3 marks)

2. Here is a solid prism made from centimetre cubes.



Find the volume of the prism.

..... cm<sup>3</sup>

(Total 2 marks)

Q2

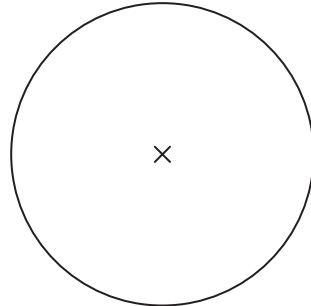
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3. In the circle, draw a diameter.



Q3

(Total 1 mark)

4. (a) Find the square root of 196

.....  
(1)

(b) Find the cube of 7

.....  
(1)

Q4

(Total 2 marks)

5. (a) Simplify  $m + m + m$

.....  
(1)

(b) Simplify  $y \times y$

.....  
(1)

(c) Simplify fully  $3a - 4b + 2a + 5b$

.....  
(2)

Q5

(Total 4 marks)



6. Work out 35% of 240

Leave blank

.....  
(Total 2 marks)

Q6

7.

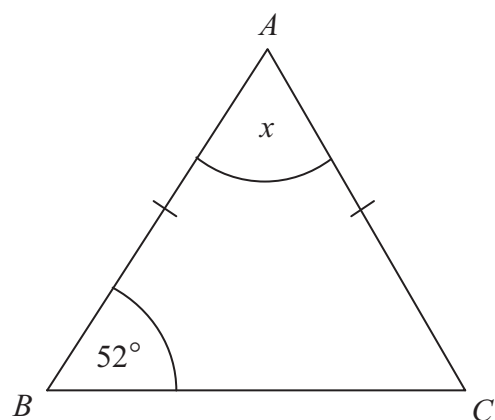


Diagram **NOT** accurately drawn

In the diagram,  
 $AB = AC$ ,  
Angle  $ABC = 52^\circ$ .

(a) Work out the size of the angle marked  $x$ .

.....  
(2)

(b) Give a reason for your answer.

.....  
(1)

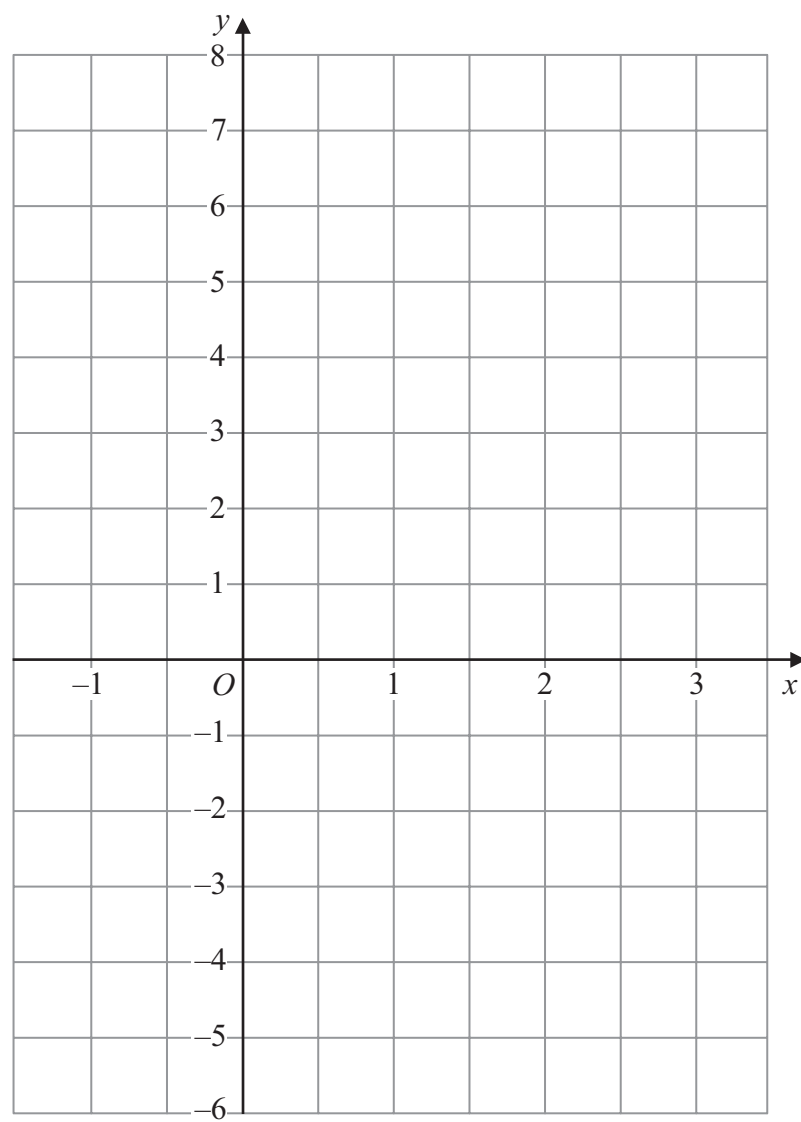
Q7

(Total 3 marks)



Leave  
blank

8. Draw the graph of  $y = 3x - 2$  for values of  $x$  from  $-1$  to  $3$



Q8

(Total 3 marks)



<p>9. Work out <math>\frac{3.4^2 - 2.6^2}{1.6}</math></p> <p>.....</p> <p><b>(Total 2 marks)</b></p>	<p>Leave blank</p> <p><b>Q9</b></p> <input type="text"/>
<p>10. John travelled 30 km in 1.5 hours. Kamala travelled 42 km in 2 hours.</p> <p>Who had the greater average speed? You must show your working.</p> <p>.....</p> <p><b>(Total 3 marks)</b></p>	<p><b>Q10</b></p> <input type="text"/>
<p style="text-align: right;"><b>TOTAL FOR PAPER: 25 MARKS</b></p> <p style="text-align: center;"><b>END</b></p>	



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