

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

Friday 13 November 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 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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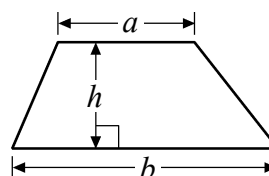
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GCSE Mathematics 2381

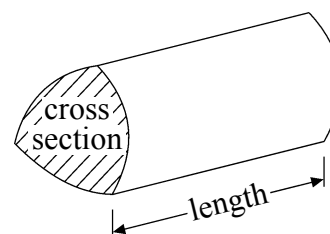
Formulae: Foundation Tier

**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



Answer ALL TEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

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

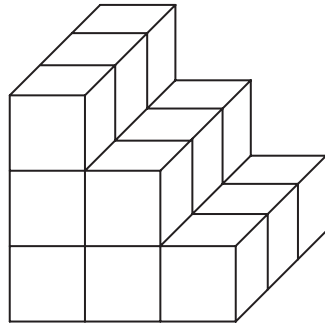


Diagram NOT accurately drawn

(a) Find the volume of the prism.

..... cm^3
(2)

Here is a cuboid.

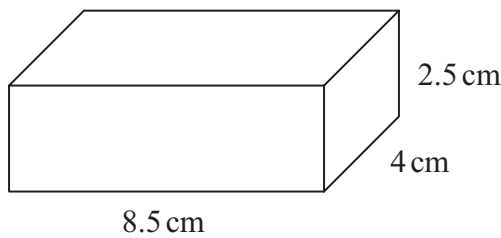


Diagram NOT accurately drawn

The length is 8.5 cm.
The width is 4 cm.
The height is 2.5 cm.

(b) Work out the volume of the cuboid.

..... cm^3
(2)

(Total 4 marks)

Q1



2. 26 people are in a café.

21 of the people leave the café.

15 more people come in.

How many people are now in the café?

.....

(Total 2 marks)

Q2

3. (a) Find the square root of 2.25

.....

(1)

(b) Find the value of 3.5^2

.....

(1)

(c) Find the square of -3

.....

(1)

(d) Work out $-8 - -4$

.....

(1)

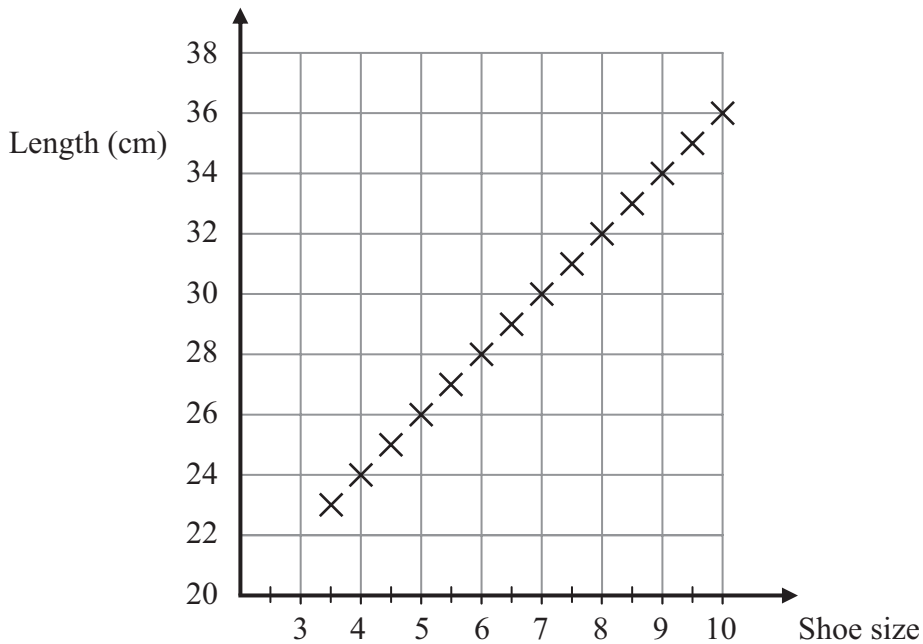
(Total 4 marks)

Q3



4. Jamie measured the lengths, in cm, of some shoes.
All the shoes were the same style.

Each point on the graph represents a shoe size and the length of the shoe.



The size of a shoe is 7

- (a) Write down the length of the shoe.

..... cm
(1)

The length of a shoe is 33 cm.

- (b) Write down the shoe size.

.....
(1)

(Total 2 marks)

Q4

5. (a) Simplify $3^4 \times 3^2$
Write your answer as a power of 3

.....
(1)

- (b) Simplify $5^5 \div 5^2$
Write your answer as a power of 5

.....
(1)

(Total 2 marks)

Q5

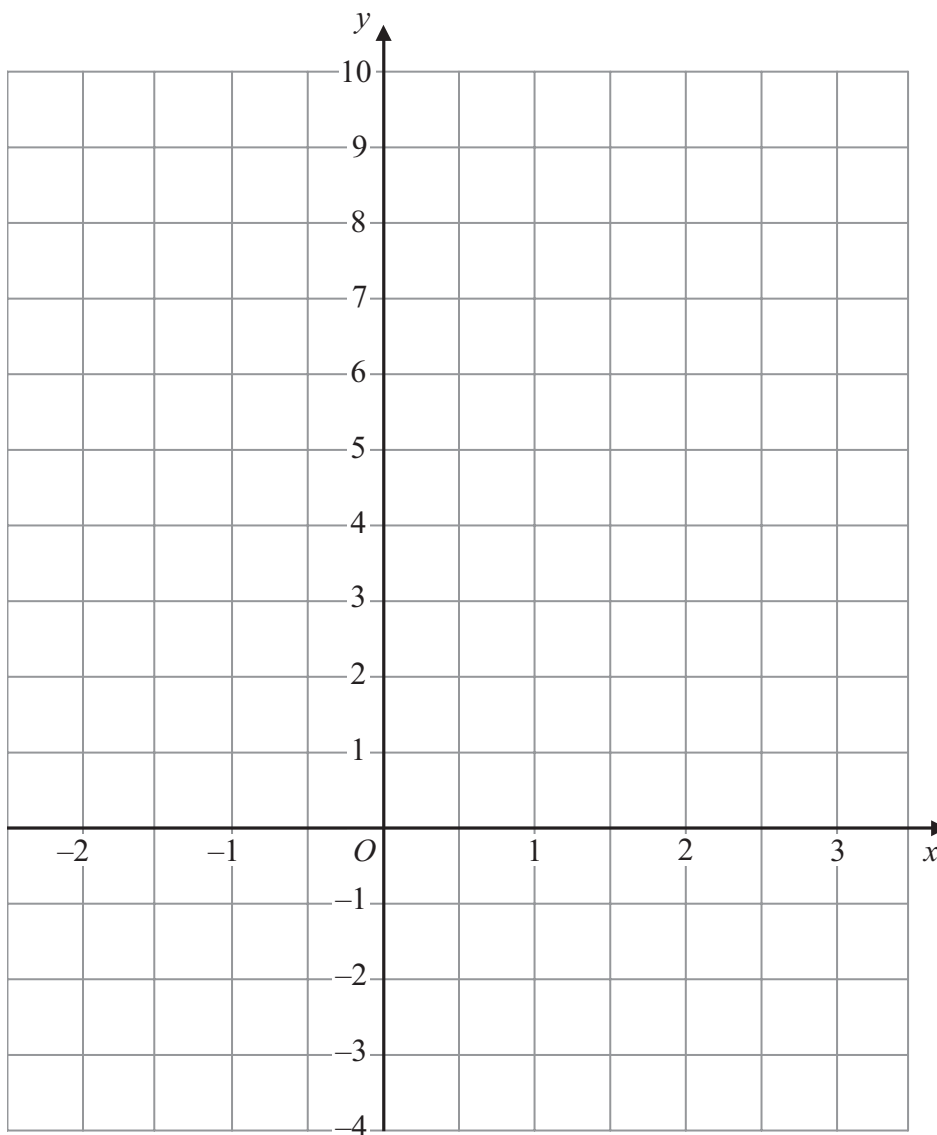


6. (a) Complete this table of values for $y = 2x + 3$

x	-2	-1	0	1	2	3
y		1		5		

(2)

(b) On the grid, draw the graph of $y = 2x + 3$



(2)

(Total 4 marks)

Q6



7.

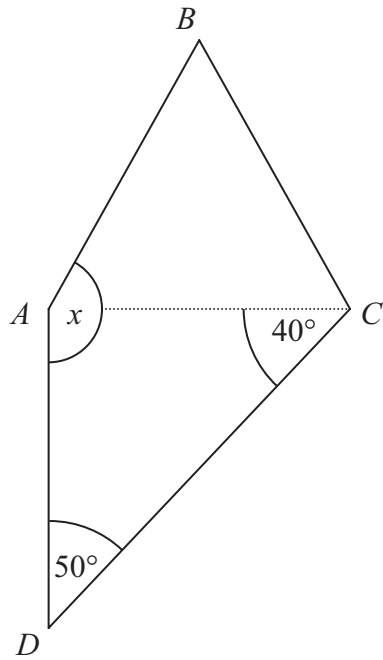


Diagram **NOT** accurately drawn

ABC is an equilateral triangle.
 ACD is a right-angled triangle.

Work out the size of the angle marked x .

.....^o
 (Total 2 marks)

Q7

8. The length of a pencil is 11 cm correct to the nearest centimetre.

Write down the **least** possible length the pencil could be.

..... cm
 (Total 1 mark)

Q8



9. Expand and simplify $(x + 3)(x + 1)$

.....
Q9

(Total 2 marks)

10. Use your calculator to work out $\frac{12.7 - 4.5}{7.8 \times 2.5}$

Write down all the figures on your calculator display.
Give your answer as a decimal.

.....
Q10

(Total 2 marks)

TOTAL FOR PAPER: 25 MARKS

END

