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

Paper Reference(s)

5383F/09

Examiner's use only

Team Leader's use only

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 9 (Calculator)

Foundation Tier

Unit 2 Stage 2

Tuesday 2 March 2010 – Afternoon

Time: 30 minutes

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 11 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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Turn over

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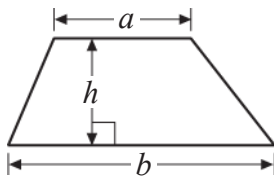
GCSE Mathematics 2381

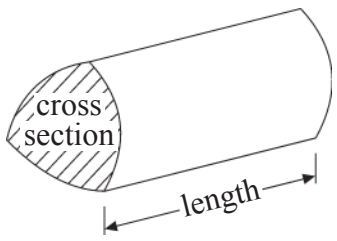
Formulae: Foundation Tier

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 × length



N 3 6 3 3 1 A 0 2 0 8

Leave blank

Answer ALL ELEVEN 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.

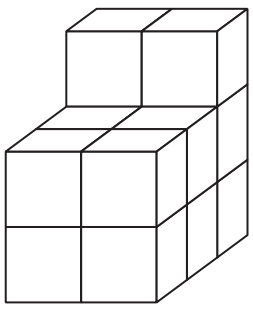
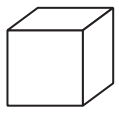


Diagram **NOT** accurately drawn



1 cm^3

Find the volume of this prism.

..... cm^3

(Total 2 marks)

Q1

2. Salma has some counters.
30% of the counters are red.

What percentage of the counters are **not** red?

..... %

(Total 1 mark)

Q2

3. Lollipops cost 34p each.
Adam has £4 to spend.

He buys as many lollipops as he can.
Work out how many lollipops he buys.

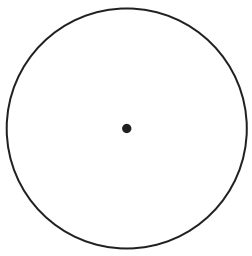
.....

(Total 2 marks)

Q3

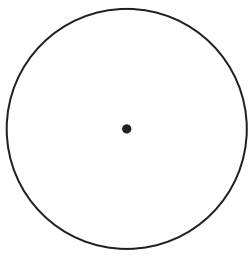
Leave blank

4. (a) In the circle, draw a radius.



(1)

(b) In the circle, draw a sector.



(1) **Q4**

(Total 2 marks)

5. (a) Find the value of $\sqrt{5.29}$

.....

(1)

(b) Work out the value of 27^2

.....

(1)

(c) Work out the cube of 4

.....

(1) **Q5**

(Total 3 marks)

Leave blank

6. A taxi journey costs

a fixed charge of £2.20
plus
£1.50 for each mile travelled.

Stacy's taxi journey cost £15.70

Work out how many miles Stacy travelled.

..... miles
(Total 3 marks)

Q6

7. (a) Simplify $f + f + f$

.....
(1)

(b) Simplify $2 \times c \times d$

.....
(1)

(c) Expand $5(x + 2)$

.....
(1)

Q7

(Total 3 marks)

N 3 6 3 3 1 A 0 5 0 8

Leave blank

8. Work out the value of $\dfrac{8.62+3.49}{4.33-2.67}$

Write down all the figures on your calculator display.
You must give your answer as a decimal.

.....

Q8

(Total 2 marks)

9.

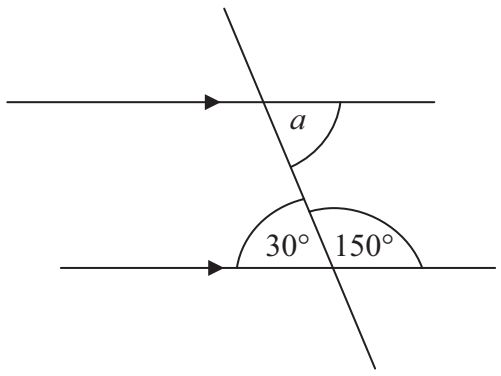


Diagram **NOT** accurately drawn

(i) Write down the size of angle *a*.

.....°

(ii) Give a reason for your answer.

.....

.....

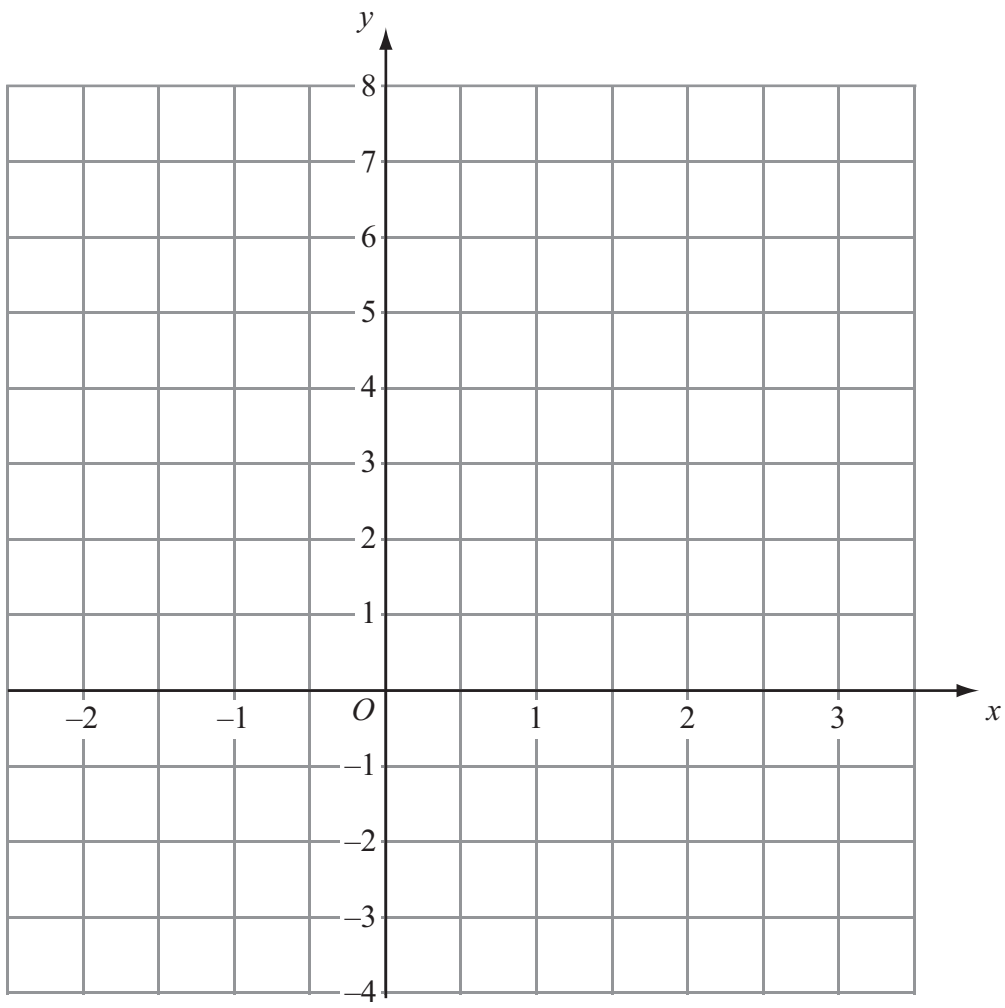
.....

Q9

(Total 2 marks)

Leave blank

10. On the grid, draw the graph of $y = 2x + 1$ for values of x from –2 to 3



Q10

(Total 3 marks)

Leave blank

11.

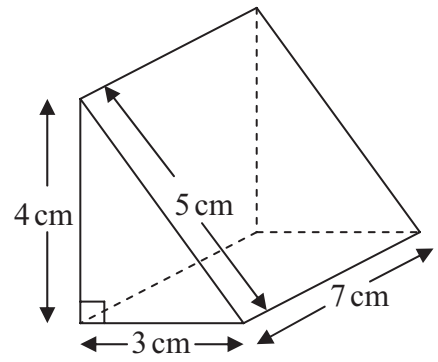


Diagram **NOT** accurately drawn

Work out the volume of the triangular prism.

..... cm^3

Q11

(Total 2 marks)

TOTAL FOR PAPER: 25 MARKS

END

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