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

Thursday 13 November 2008 – 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 12 questions in this question paper. The total mark for this paper is 25.
There are 12 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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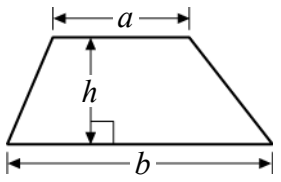
GCSE Mathematics

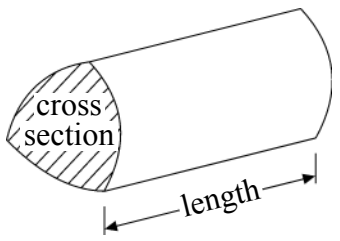
Formulae: Foundation Tier

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



Leave blank

Answer ALL TWELVE questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1. (a) Write 3.9 to the nearest whole number.

.....

(1)

(b) Write down the square of 4

.....

(1)

Q1

(Total 2 marks)

2. There are some pens in a box.
The pens are red, blue, green or black.

The table shows the percentage of red, blue and green pens in the box.

Colour of pen	Percentage
Red	23 %
Blue	32 %
Green	10 %
Black	

Work out the percentage of black pens in the box.

..... %

Q2

(Total 2 marks)

Leave blank

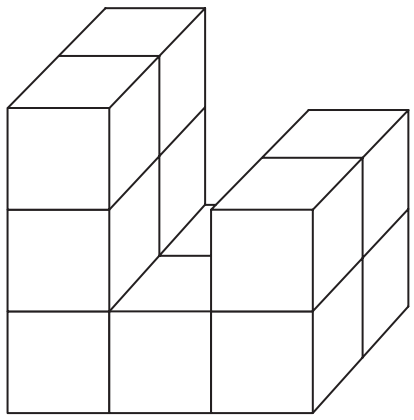
3. Simplify

$$x + x + x + x + x$$

..... **Q3**

(Total 1 mark)

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



Work out the volume of the solid prism.

..... cm^3 **Q4**

(Total 2 marks)

Leave blank

5. Frankie says that $15 - 3 \times 2 = 24$

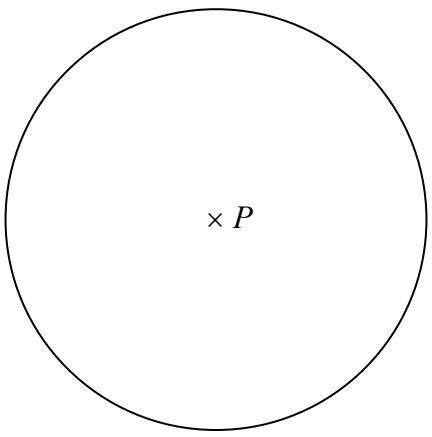
Frankie is wrong.
Explain why.

.....

(Total 1 mark)

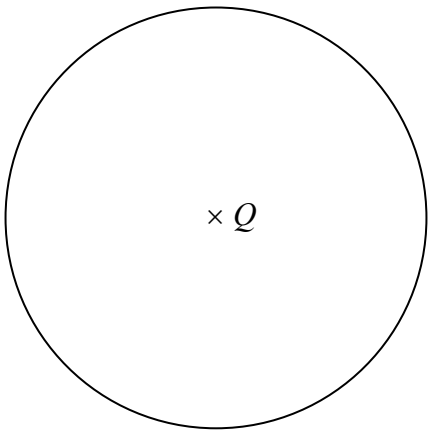
Q5

6.



(a) In the circle, centre P, draw a radius.

(1)



(b) In the circle, centre Q, draw a chord.

(1)

(Total 2 marks)

Q6

Leave blank

7.

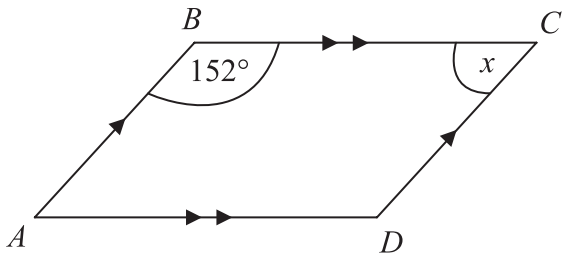


Diagram **NOT** accurately drawn

ABCD is a parallelogram.

Work out the size of the angle marked *x*.

$x =$ ..... °

Q7

(Total 2 marks)

8. Use your calculator to work out

$$\sqrt{12.63 + 18^2}$$

Write down all the figures on your calculator display.

.....

Q8

(Total 2 marks)

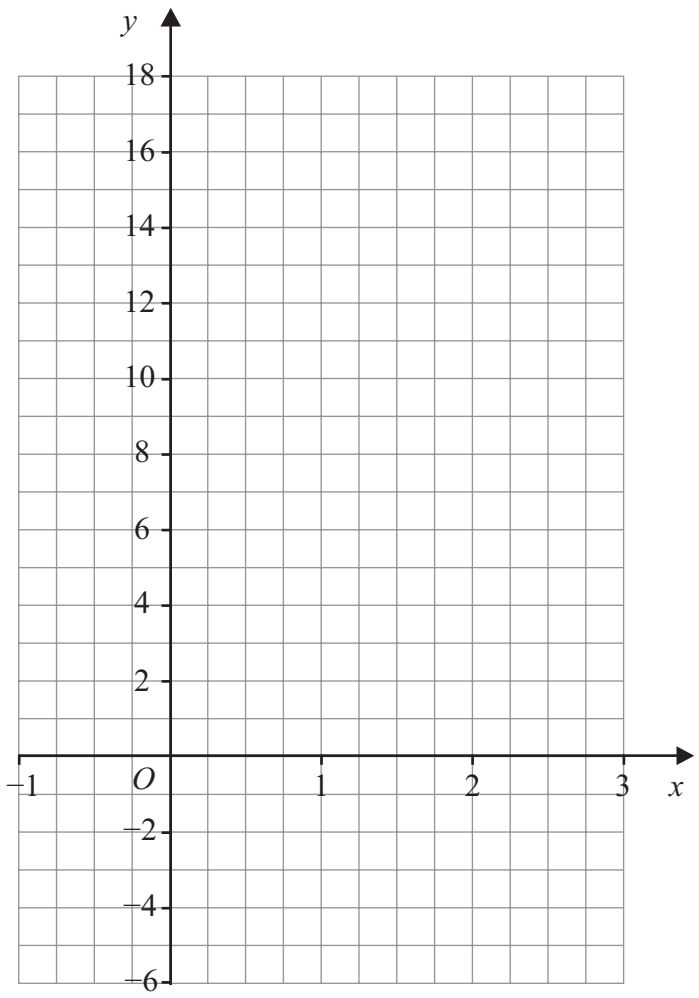
Leave blank

9. (a) Complete the table of values for $y = 5x + 1$

x	−1	0	1	2	3
y		1			16

(2)

(b) On the grid, draw the graph of $y = 5x + 1$



(2) **Q9**

(Total 4 marks)

Leave blank

10. (a) Expand

$2(3c - 2)$

.....

(1)

(b) Factorise

$xy + 3x$

.....

(1)

Q10

(Total 2 marks)

11. Mrs Moger took a group of children to the theatre.

Adult Ticket	**£13.20**
Child Ticket	**£8.30**

The total cost of **one** adult ticket and **all** the child tickets was £146

Work out the number of children Mrs Moger took to the theatre.

..... children

Q11

(Total 3 marks)

Leave blank

12.

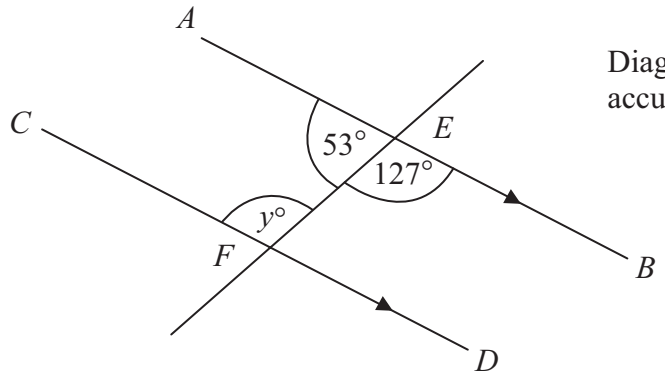


Diagram **NOT** accurately drawn

AB is parallel to *CD*.
Angle *BEF* = 127°

(i) Write down the value of *y*.

y = ...

(ii) Give a reason for your answer.

.....

Q12

(Total 2 marks)

TOTAL FOR PAPER: 25 MARKS

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