Paper Reference(s)

5383F/09

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 9 (Calculator)

Foundation Tier

Unit 2 Stage 2

Thursday 12 June 2008 – Afternoon

Time: 30 minutes

Materials required for examination	**Items included with question papers**
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.	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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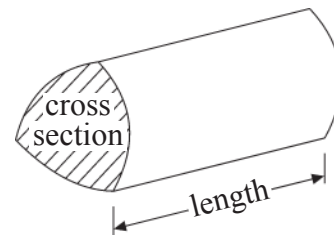
GCSE Mathematics

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 $= \frac{1}{2}(a+b)h$
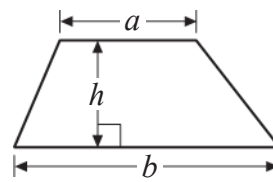
Volume of prism = area of cross section × length

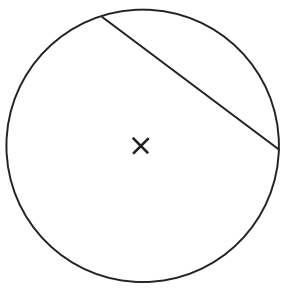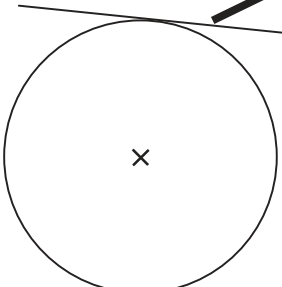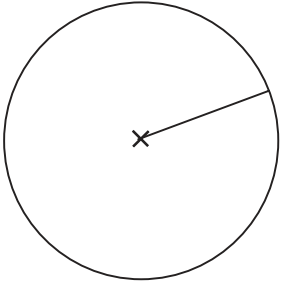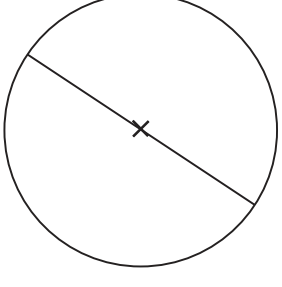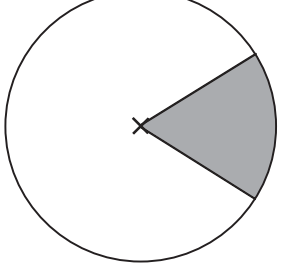**Answer ALL TEN questions.**

Write your answers in the spaces provided.

You must write down all stages in your working.

1. 83% of the houses in Spring Road have a satellite dish.

   What percentage of the houses in Spring Road do **not** have a satellite dish?

   ....%

   (Total 1 mark)

2. (a) Write down a square root of 25

   ....

   (1)

   (b) Write down the cube of 2

   ....

   (1)

   (Total 2 marks)

3. Here are 5 diagrams and 5 labels.
In each diagram the centre of the circle is marked with a cross (×).

Match each diagram to its label.
One has been done for you.

Diagram	**Label**

Circle and
tangent

Circle and
radius

Circle and
chord

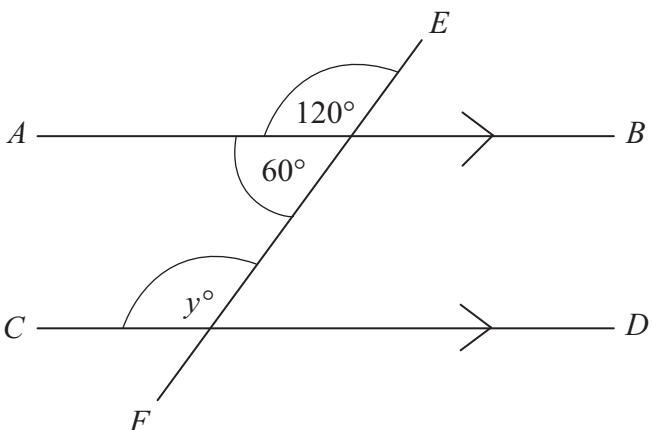Circle and
sector

Circle and
diameter

(Total 3 marks)

4. Grace buys

> 1 book for £3.95
> 1 magazine for £1.80
> 2 pens for 40p **each**.

She pays with a £10 note.

How much change should she get?

£ …………………………

(Total 3 marks)

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

....
(1)

(b) Simplify $8k - 3k$

....
(1)

(c) Simplify $2m \times 3p$

....
(1)

(Total 3 marks)

6. (a) Use your calculator to work out

$$(3.4 + 2.1)^2 \times 5.7$$

Write down all the figures on your calculator display.

....
(2)

(b) Write your answer to part (a) correct to 1 significant figure.

....
(1)   **Q6**

(Total 3 marks)

7.

AB is parallel to *CD*.
EF is a straight line.

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

$y =$ ....

(ii) Give a reason for your answer.

....   **Q7**

(Total 2 marks)

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

x	−2	−1	0	1	2
y		−1		5	

(2)

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

(2)   Q8
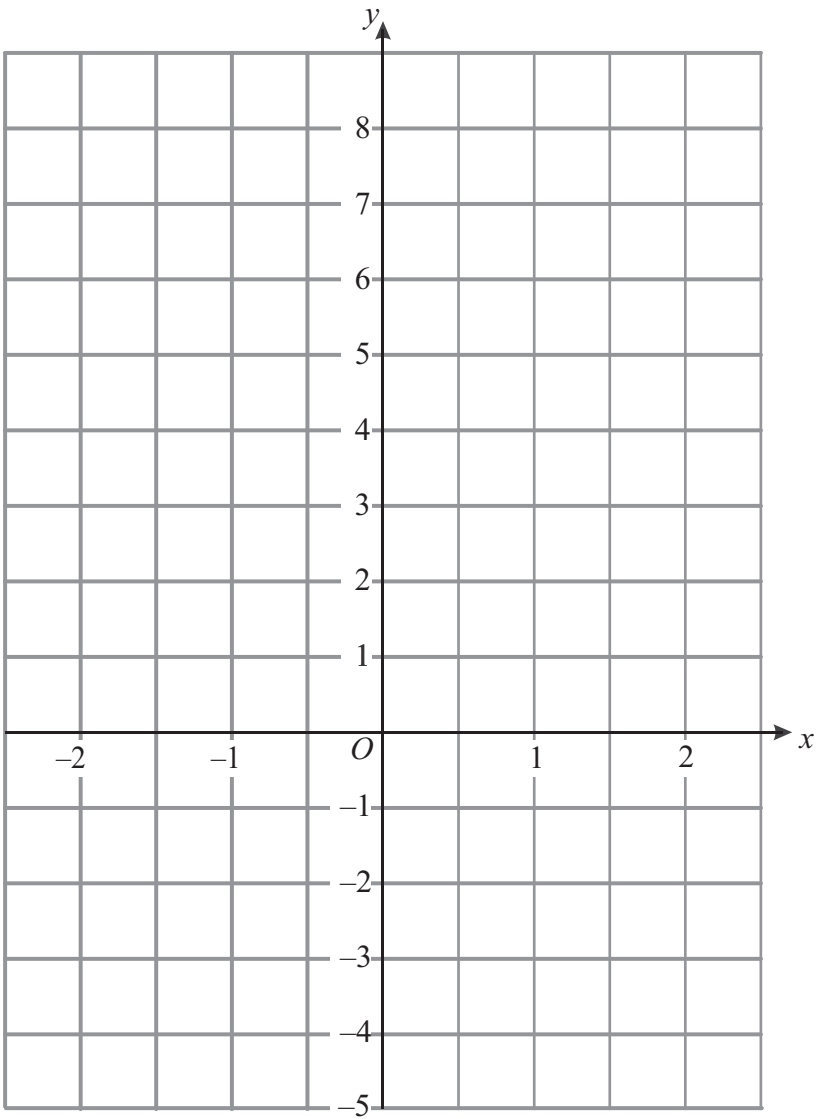
(Total 4 marks)

9. Ahmed is planning a holiday.

The holiday costs £450
Ahmed pays a deposit of 30% of the cost of the holiday.

Work out how much deposit Ahmed pays.

£ ....

Q9

(Total 2 marks)

10. The distance from London to New York is 3456 miles.
A plane takes 8 hours to fly from London to New York.

Work out the average speed of the plane.

.... miles per hour

Q10

(Total 2 marks)

TOTAL FOR PAPER: 25 MARKS

END