

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 17 November 2011 – 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 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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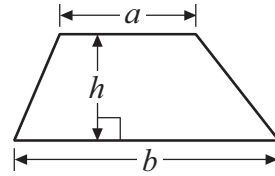
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GCSE Mathematics 2381

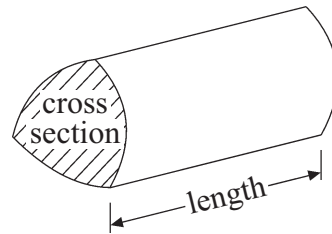
Formulae: Foundation Tier

**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. Write 6.38 correct to the nearest whole number.

.....

(Total 1 mark)

Q1

2. (a) Work out the square of 5

.....

(1)

(b) Work out 2^3

.....

(1)

(Total 2 marks)

Q2

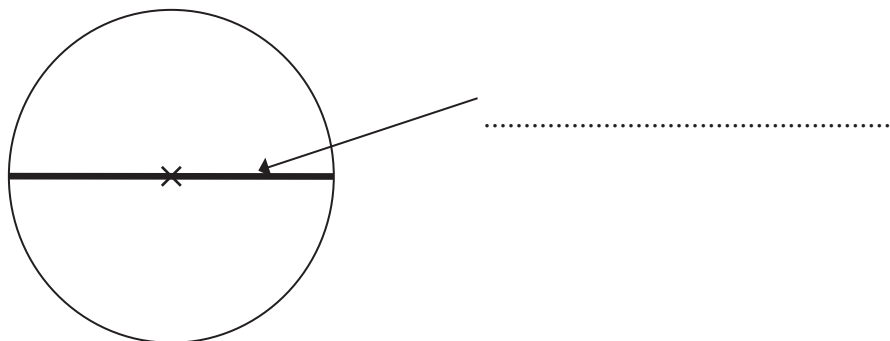


3. Here is a list of words.

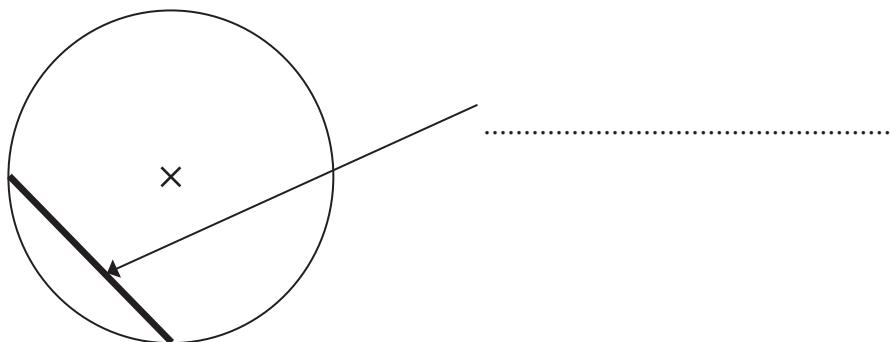
Diameter Radius Circumference Centre Chord Sector Segment

Choose the correct word from the list to label each diagram.

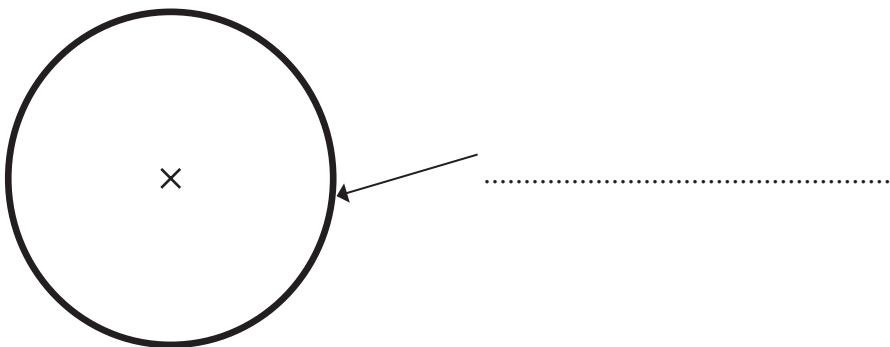
(i)



(ii)



(iii)

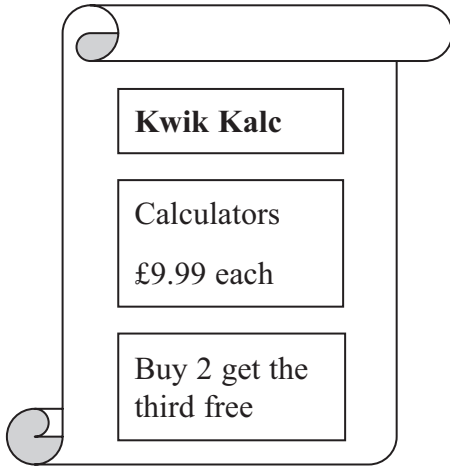


(Total 3 marks)

Q3



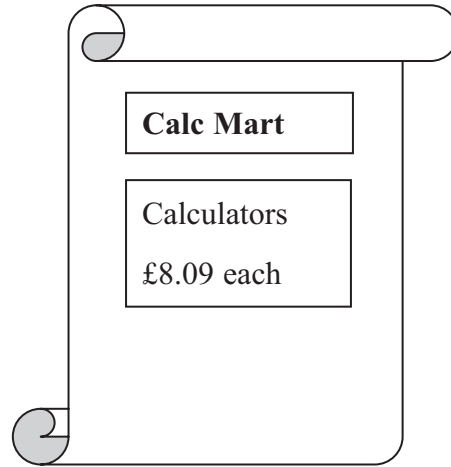
4.



Kwik Kalc

Calculators
£9.99 each

Buy 2 get the
third free



Calc Mart

Calculators
£8.09 each

Jim has to buy 30 calculators.

He can buy them from Kwik Kalc or from Calc Mart.

It is cheaper for Jim to get the 30 calculators from Kwik Kalc not from Calc Mart.

Work out how much cheaper.

£

(Total 3 marks)

Q4



5. (a) Write $\frac{7}{100}$ as a decimal.

.....
(1)

(b) Here is a shape made of centimetre squares.



Shade 20% of the shape.

(1)

Q5

(Total 2 marks)

6. (a) Simplify $8x - 3x + 2x$

.....
(1)

(b) Simplify $3c + 2d - c - 6d$

.....
(2)

Q6

(Total 3 marks)



7. Abah packs tins of soup into boxes.

The largest number of tins she can pack into any box is 36

Abah has to pack 1200 tins of soup.

Work out the number of boxes she needs.

.....

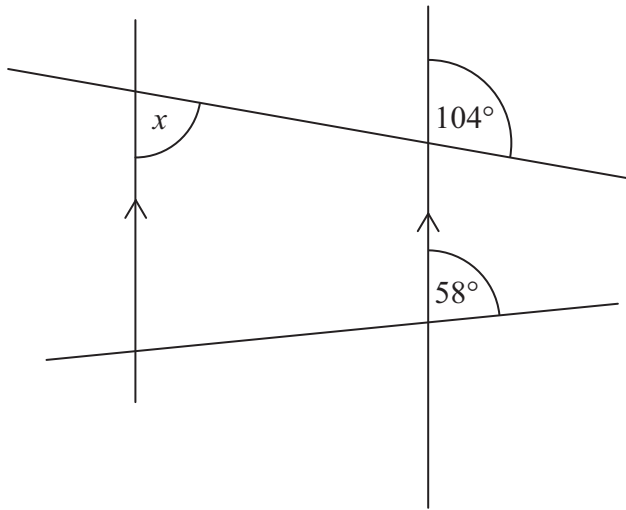
(Total 2 marks)

Q7



8.

Diagram **NOT** accurately drawn



(i) Work out the size of the angle marked x .

.....
o

(ii) Give reasons for your answer.

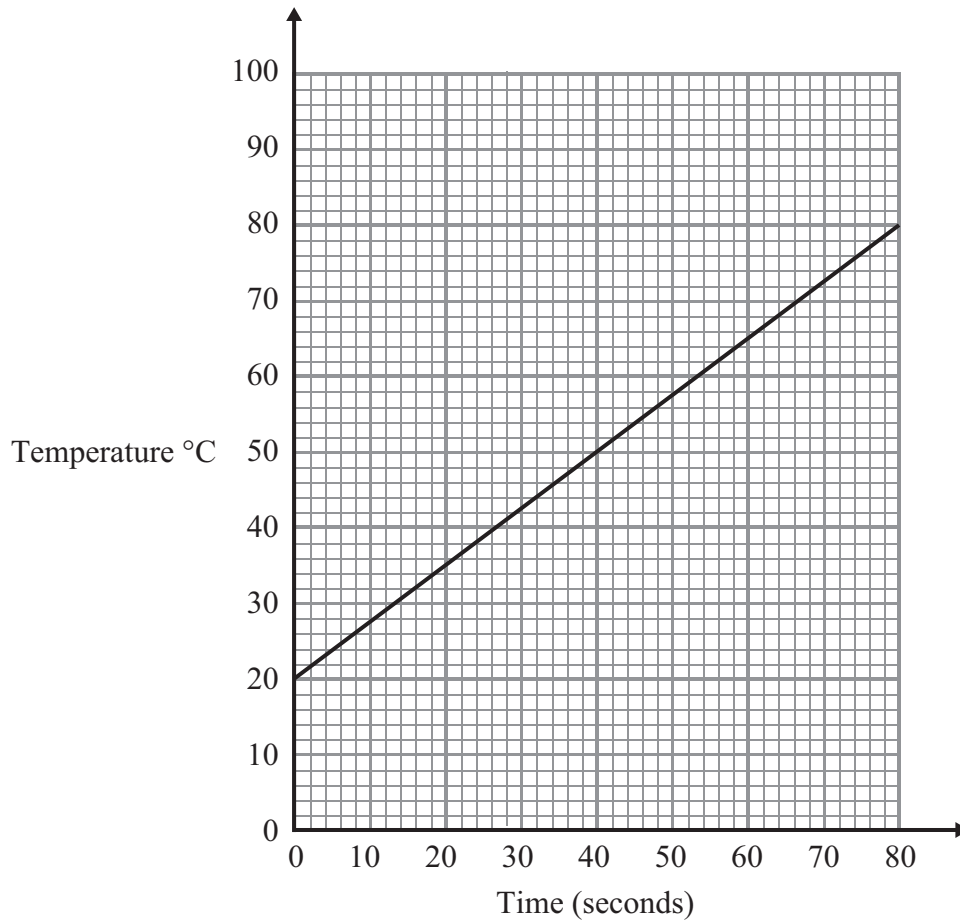
.....
.....

(Total 2 marks)

Q8



9. Amy heats some water in a kettle.
The graph gives information about the temperature of the water during the first 80 seconds.



- (a) Write down the temperature at the start of the 80 seconds.

..... °C
(1)

- (b) Work out the number of seconds it took for the temperature to increase from 30°C to 65°C.

..... seconds
(2)

(Total 3 marks)

Q9



10. Helen leaves a motorway service station at 1 30 pm and drives along the motorway at a speed of 52 miles per hour.
John leaves the same service station at 2 00 pm and drives along the same motorway. He catches up with Helen at 3 45 pm.

Work out the speed at which John drives.
Give your answer correct to 1 decimal place.

..... mph

(Total 4 marks)

Q10

TOTAL FOR PAPER: 25 MARKS

END



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