Centre No.			Paper Reference					ce	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

Monday 21 June 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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Team Leader's use only

Examiner's use only

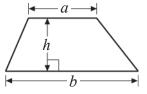
GCSE Mathematics

Formulae: Foundation Tier

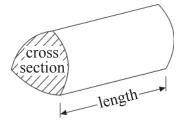
You must not write on this formulae page.

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 \times length



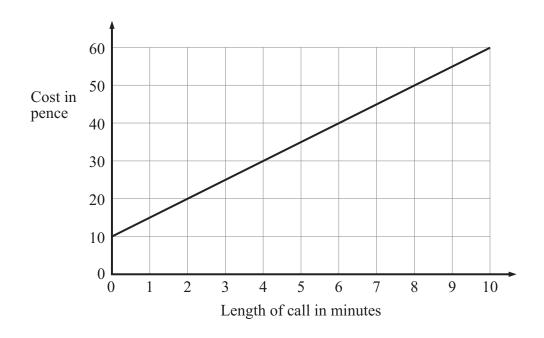
Leave blank

Answer ALL ELEVEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1. This graph can be used to work out the cost, in pence, of a telephone call.



The length of a call is 6 minutes.

(a) Use the graph to find the cost of the call.

······] (1

The cost of another call is 30p.

(b) Use the graph to find the length of the call.

..... minutes (1)

Q1

(Total 2 marks)

N 3 6 7 6 5 A 0 3 0 8

3

2. Write down a sensible metric unit for measuring (i) the height of a mountain, (ii) the amount of water in a pond. O2 (Total 2 marks) 3. Prices Milkshake 90p Can of orange 65p Beefburger £2.45 Egg and chips £2.75 Nicola buys two milkshakes and one beefburger. Work out the total cost. £	2.	Write down a consible ma	tria unit for magning		Leave
(ii) the amount of water in a pond. Prices Milkshake 90p Can of orange 65p Beefburger £2.45 Fgg and chips £2.75 Nicola buys two milkshakes and one beefburger. Work out the total cost. 4. Here is a diagram of a solid cuboid. (i) Write down the number of faces of the cuboid.	2.	write down a sensible me	tric unit for measuring		
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Q4					
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(Total 2 marks)					Q4
(Iviai 2 Iliai KS)				(Total 2 marks)	
				(IUtai 2 mai KS)	

5.	Here is a list of eight numbers.	Leave blank
	5 6 7 8 9 10 11 12	
	From the list, write down	
	(i) the square number	
	(ii) the cube of 2	
		Q5
	(Total 2 marks)	
6.	(a) Simplify $5m - 2m$	
	(1)	
	(b) Simplify $4c \times 2d$	
	(1)	
	(c) Simplify $3a + 6b + a - 4b$	
		0(
	(2) (Total 4 marks)	Q6
7.	Concert tickets Adult ticket £7.50 Child ticket £3.50 Mr Brown buys 2 adult tickets and some child tickets. The total cost is £39.50 Work out how many child tickets he buys.	07
	(Total 2 marks)	Q7

Leave blank **8.** Diagrams **NOT** Small box 5 cm accurately drawn 10 cm Carton 40 cm 30 cm 30 cm A small box measures 6 cm by 10 cm by 5 cm. A carton measures 30 cm by 30 cm by 40 cm. The carton is completely filled with small boxes. Work out the number of small boxes in the carton. **Q8** (Total 3 marks)

9.	Work out the value of $\frac{6.5^2}{7.3 - 2.54}$	Leave blank
	Write down all the figures on your calculator display. You must give your answer as a decimal.	
		Q9
	(Total 2 marks)	
10.	The diagram shows the positions of two ships, A and B .	
	${f N}$	
	↑	
	N Diagram NOT accurately drawn	
	$\stackrel{V}{A}$	
	Ali says "The bearing of ship B from ship A is 040° ".	
	Ali is wrong.	
	(a) Explain why.	
	(1)	
	(b) Work out the bearing of ship A from ship B .	
	(1)	Q10

(Total 2 marks)

				Leave blank
11. Write as a power of 7				
(i) $7^6 \times 7^2$				
		••••		
(ii) $7^9 \div 7^5$				
				Q11
			(Total 2 marks)	
		TOTAL FOR P	APER: 25 MARKS	
	END			