

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

Monday 21 June 2010 – 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 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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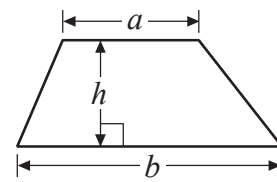
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GCSE Mathematics

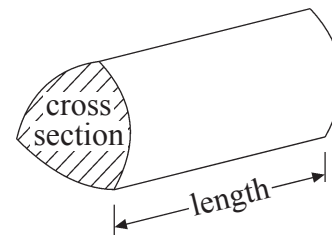
Formulae: Foundation Tier

**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 \times length



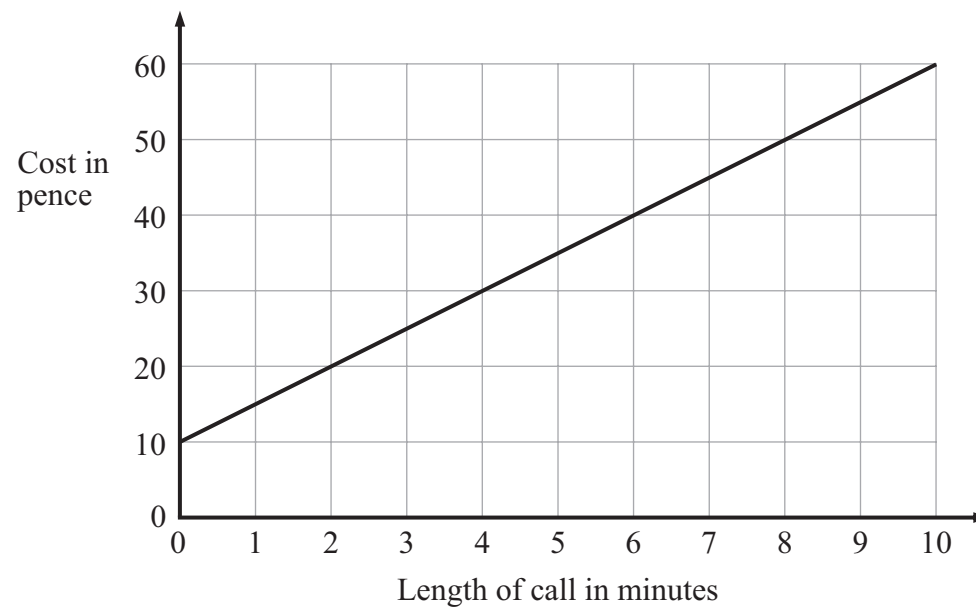
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Answer ALL ELEVEN questions.

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.

..... p
(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)



Leave blank

2. Write down a sensible **metric** unit for measuring

(i) the height of a mountain,

.....

(ii) the amount of water in a pond.

.....

Q2

(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.

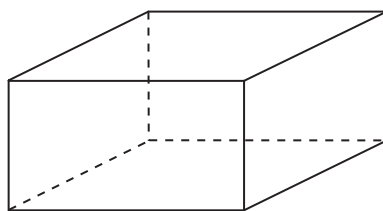
Work out the total cost.

£.....

Q3

(Total 2 marks)

4. Here is a diagram of a solid cuboid.



(i) Write down the number of faces of the cuboid.

.....

(ii) Write down the number of edges of the cuboid.

.....

Q4

(Total 2 marks)



Leave
blank

5. Here is a list of eight numbers.

5 6 7 8 9 10 11 12

From the list, write down

(i) the square number

.....

(ii) the cube of 2

.....

(Total 2 marks)

Q5

6. (a) Simplify $5m - 2m$

.....

(1)

(b) Simplify $4c \times 2d$

.....

(1)

(c) Simplify $3a + 6b + a - 4b$

.....

(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.

.....

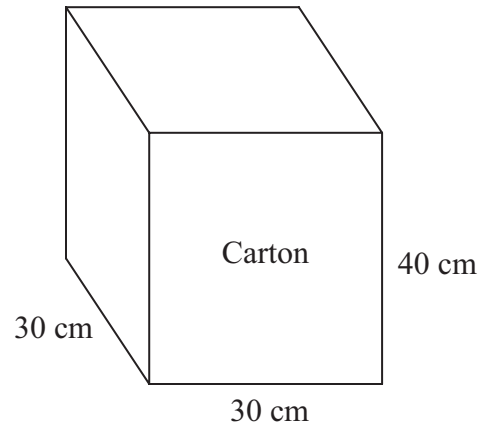
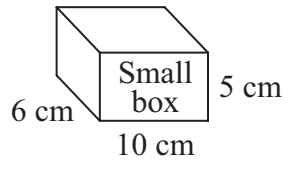
(Total 2 marks)

Q7



Leave blank

8.



Diagrams **NOT** accurately drawn

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 $\frac{6.5^2}{7.3 - 2.54}$

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

Leave
blank

.....
(Total 2 marks)

Q9

10. The diagram shows the positions of two ships, *A* and *B*.

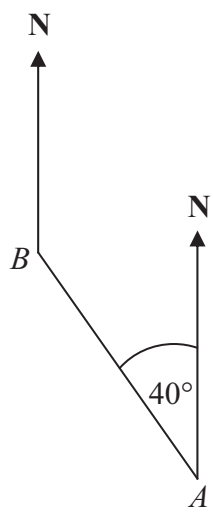


Diagram **NOT**
accurately drawn

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)

(Total 2 marks)

Q10



11. Write as a power of 7

(i) $7^6 \times 7^2$

.....

(ii) $7^9 \div 7^5$

.....

(Total 2 marks)

Leave
blank

Q11

TOTAL FOR PAPER: 25 MARKS

END

