

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
TOTAL	



General Certificate of Education  
Advanced Subsidiary Examination  
June 2011

# Use of Mathematics

# UOM4/1

## Applying Mathematics Paper 1

Thursday 26 May 2011 9.00 am to 10.00 am

**For this paper you must have:**

- a clean copy of the Data Sheet (enclosed)
- a graphics calculator
- a ruler.

### Time allowed

- 1 hour

### Instructions

- Use black ink or black ball-point pen. Pencil should only be used for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- Write the question part reference (eg (a), (b)(i) etc) in the left-hand margin.
- You must answer the questions in the spaces provided. Do not write outside the box around each page.
- Show all necessary working; otherwise marks for method may be lost.
- Do all rough work in this book. Cross through any work that you do not want to be marked.
- The **final** answer to questions requiring the use of tables or calculators should normally be given to three significant figures.
- You may **not** refer to the copy of the Data Sheet that was available prior to this examination. A clean copy is enclosed for your use.

### Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 30.



J U N 1 1 U O M 4 / 1 0 1





2

Write down a formula that gives the weight gain (kg) for a calorie intake of  $c$  calories above a person's daily calorie needs.

(2 marks)

QUESTION  
PART  
REFERENCE

A large rectangular area with horizontal dotted lines for writing the answer.







5

The article shows that, to lose weight, Ben has to carry out exercise for which  $E \times h \geq 7.25$ . Using data from the article, suggest two different ways in which he might do this. (2 marks)

QUESTION  
PART  
REFERENCE

Area for student response with horizontal dotted lines.

Turn over ►



