

OXFORD CAMBRIDGE AND RSA EXAMINATIONS
General Certificate of Secondary Education

MATHEMATICS C
(Graduated Assessment)



1966/2332B

MODULE M2 – SECTION B

Wednesday **28 JUNE 2006** Morning 30 minutes

Candidates answer on the question paper.

- Additional materials:
- Geometrical instruments
 - Tracing paper (optional)
 - Electronic calculator

Candidate
Name

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Centre
Number

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Candidate
Number

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TIME 30 minutes

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the boxes above.
- Answer **all** the questions.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- In many questions marks will be given for a correct method even if the answer is incorrect.
- Do **not** write in the bar code.
- Do **not** write outside the box bordering each page.
- **WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED. ANSWERS WRITTEN ELSEWHERE WILL NOT BE MARKED.**

INFORMATION FOR CANDIDATES

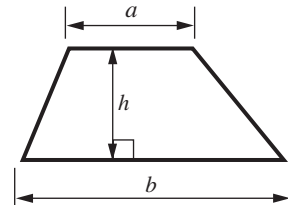
- You are expected to use a calculator in Section B of this paper.
- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this Section is 25.
- Section B starts with question 7.

FOR EXAMINER'S USE	
Section B	

This question paper consists of 7 printed pages and 1 blank page.

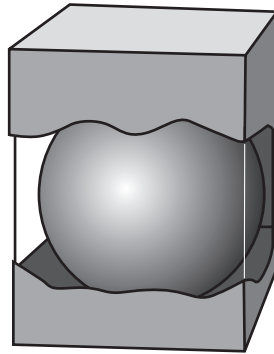
Formula Sheet

$$\text{Area of trapezium} = \frac{1}{2} (a + b)h$$



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7 This is a picture of a chocolate in a box.



(a) Write down the mathematical names of the two objects.
Choose from the list.

- cone cylinder cube pyramid cuboid sphere

The box is a [1]

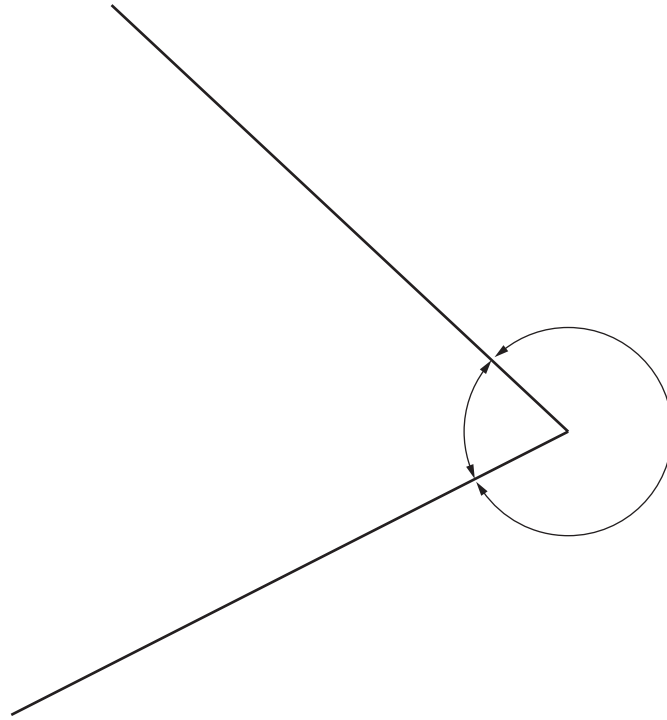
The chocolate is a [1]

(b) Each chocolate costs £1.49.

How many of these chocolates can be bought with £10?

(b) [2]

4



(a) Mark the acute angle with an \sphericalangle .

[1]

(b) Measure the angle you have chosen.

(b)° [1]

2

9 This formula is used to change miles into kilometres.

multiply the miles by 8
then divide by 5

(a) Geena cycles 40 miles.

How many kilometres is this?

(a)km [2]

(b) Marcus walks 12.5 miles.

How many kilometres is this?

(b)km [1]

3

10 Seven friends win £500.
They share the £500 equally.

How much do they get each, and how much is left over?

..... each, and left over [5]

5

[Turn over

11 Andy kept a record of his cycle ride.

		time taken	miles
start cycling from home at	pm		
home to the canal	arrive 2 25 pm	20 minutes	6.3
canal to main road	arrive	25 minutes	7.4
back home	arrive 3 30 pm minutes	8.7

(a) Fill in the missing information in the table. [3]

(b) How long did he spend cycling altogether?

(b) hoursminutes [2]

(c) How many miles did he cycle from home to the canal?

(c)miles [1]

(d) How many miles did he cycle altogether?

(d)miles [2]

8

12 Colin has a pack of 8 fruit yogurts.

- 4 are strawberry
- 2 are blackberry
- 1 is lemon
- 1 is cherry

He takes one yogurt at random.

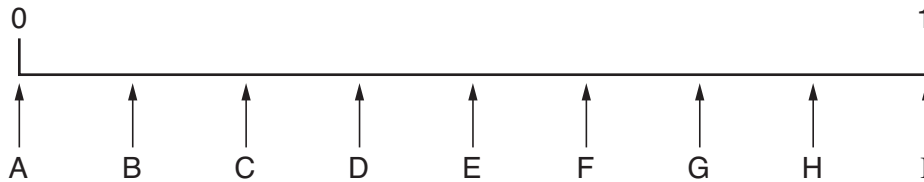
(a)

certain
evens
impossible
likely
unlikely

Choose the best word from the list to complete this sentence.

It is that he takes lemon. [1]

(b) Some probabilities are shown on this number line.



Match the correct arrows with these statements.

The probability that he takes **strawberry** is arrow [1]

The probability that he takes **yogurt** is arrow [1]

3

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