MATHEMATICS C
(Graduated Assessment)

1966/2334A

MODULE M4 – SECTION A

Wednesday   **28 JUNE 2006**   Morning   30 minutes

Candidates answer on the question paper.
Additional materials:
    Geometrical instruments
    Tracing paper (optional)

Candidate
Name

Centre
Number

Candidate
Number

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

- The number of marks is given in brackets [ ] at the end of each question or part question.
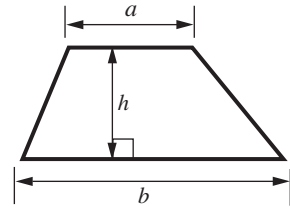- The total number of marks for this Section is 25.

WARNING
You are not allowed to use a
calculator in Section A of this paper.

FOR EXAMINER'S USE	
Section A	
Section B	
TOTAL	

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

[Turn over

Formula Sheet

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

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1   Here is a list of numbers.

6   7   9   12   17   45   56

Choose from this list to complete each sentence.

(a)   .... is a multiple of 5.   [1]

(b)   .... is a factor of 28.   [1]
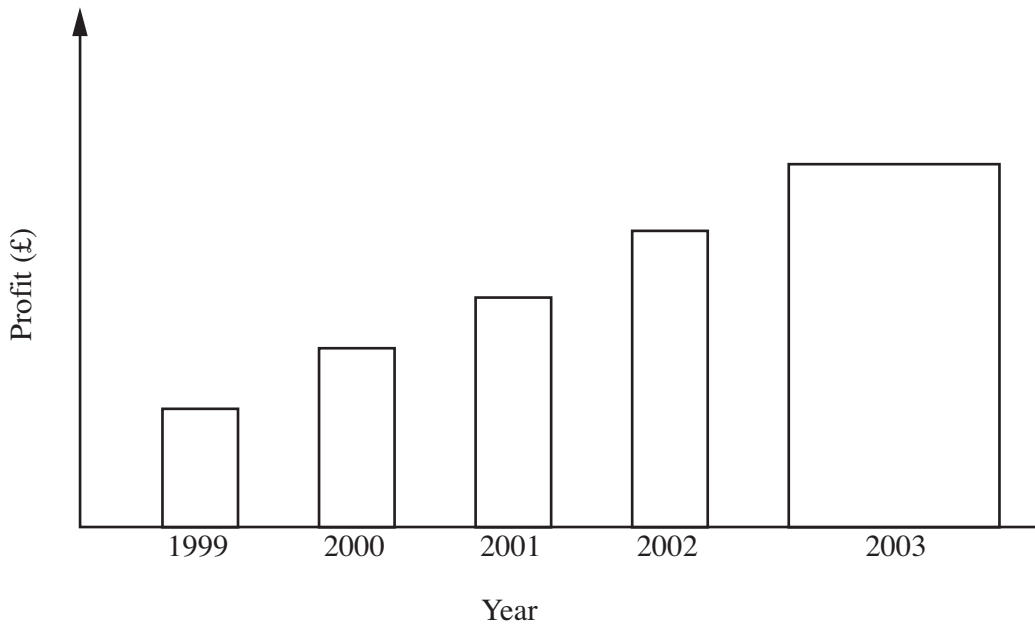
(c)   .... is a common factor of 18 and 63.   [1]

3

2

PROFITS SHOOT UP

Give two reasons why this diagram is misleading.

1. ....

   ....[1]

2. ....

   ....[1]

2

[Turn over

3 Nadia visited her friend.
She went there by bus and her mother drove her home by car.
The graph shows her journey.
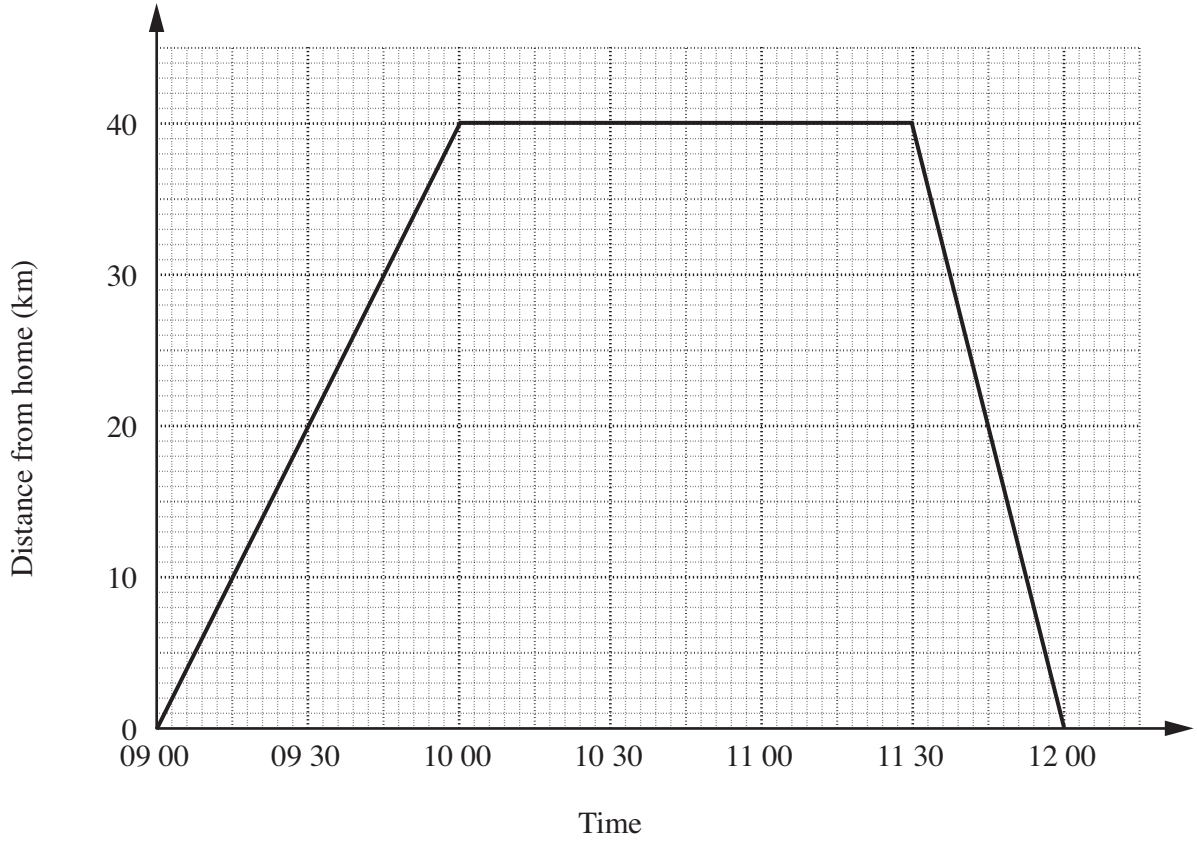
(a) How far did Nadia live from her friend?

(a) ....km [1]

(b) How long did Nadia stay with her friend?

(b) ....hours [2]

(c) Work out the average speed for the car journey.

(c) ....km/h [2]

5

4 This is a recipe for ginger biscuits.

> ### GINGER BISCUITS
>
> <u>Makes 50</u>
>
> 90 g margarine
> 350 g flour
> 100 g sugar
> 1 egg
> 2 teaspoons of ground ginger

(a) Alec makes 100 ginger biscuits.

How much flour does he use?

(a) ....g [1]

(b) Tony uses 270 g of margarine.

How many ginger biscuits does he make?

(b) ....[1]

(c) Ruth makes 25 ginger biscuits.

How much sugar does she use?

(c) ....g [1]

3

[Turn over

5 **(a)** Write 0·7

(i) as a fraction,

(a)(i) ....[1]

(ii) as a percentage.

(ii) ....% [1]

(b) Write these decimals in order starting with the smallest.

0·7   0·706   0·76   0·076   0·176

....
smallest

[2]
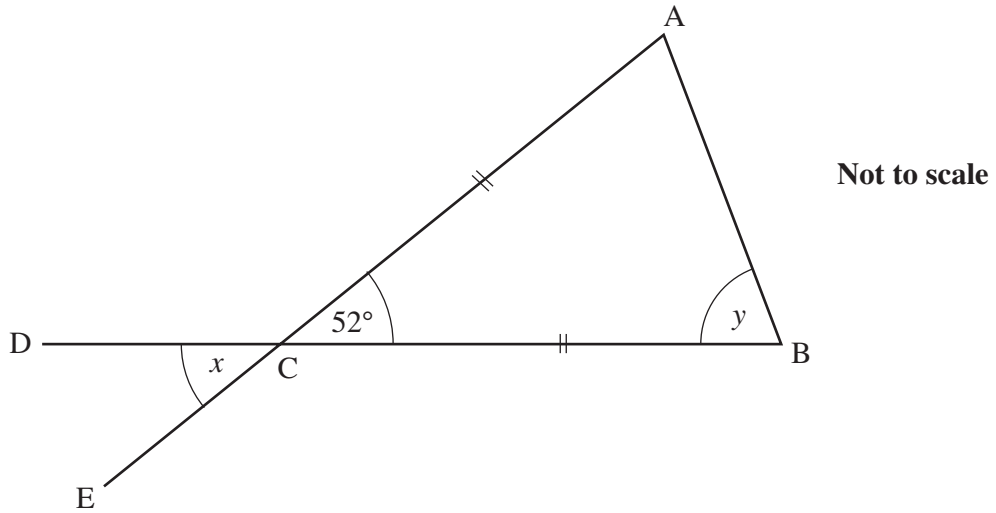
4

6 Mark rented a house for 19 weeks.
The rent was £128 per week.

Work out the **total** rent he paid.
You must show all your working.

£ ....[3]

3

7

Not to scale

In the diagram, ACE and BCD are straight lines.
AC = BC.

(a) Work out angle *x*.
Give a reason for your answer.

x = ...° because ....

....[2]

(b) Work out angle *y*.
Give reasons for your answer.

y = ...° because ....

....

....[3]

8
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