MATHEMATICS C
(Graduated Assessment)

1966/2331B

MODULE M1 – SECTION B

Monday   **23 JANUARY 2006**   Morning   30 minutes

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

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.
* Write your answers on the dotted lines unless the question says otherwise.
* 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.
* There is a space after most questions. Use it to do your working. 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 in the grey area between the pages.
* **DO NOT** WRITE IN THE AREA **OUTSIDE** THE BOX BORDERING EACH PAGE. ANY WRITING IN THIS AREA 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.
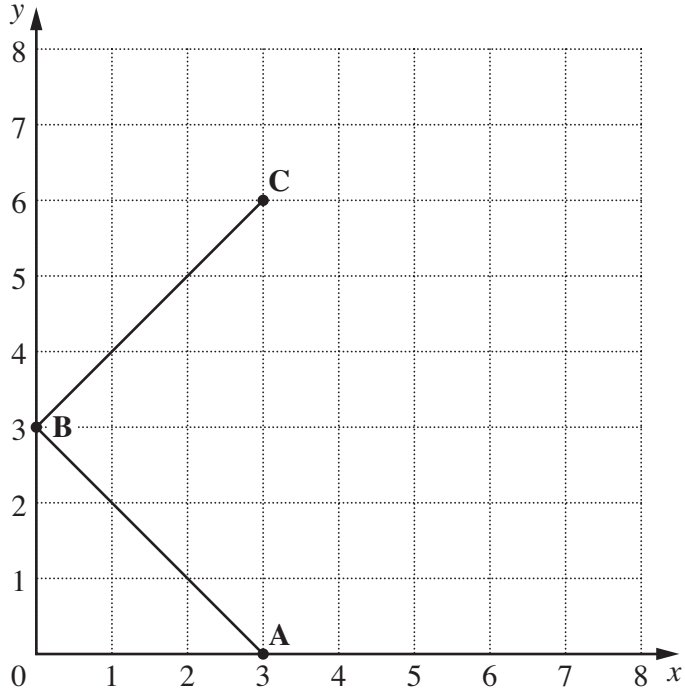* Section B starts with question 8.

FOR EXAMINER'S USE	
Section B	

This question paper consists of 8 printed pages.

[Turn over

Formula Sheet

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

8
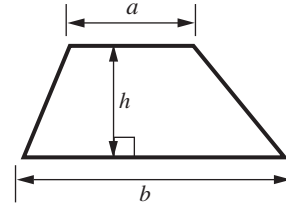
(a) Write down the coordinates of the point C.

(a) (.............. , ...) [1]

(b) A, B and C are three corners of a square.

Plot the fourth corner and complete the square. [1]

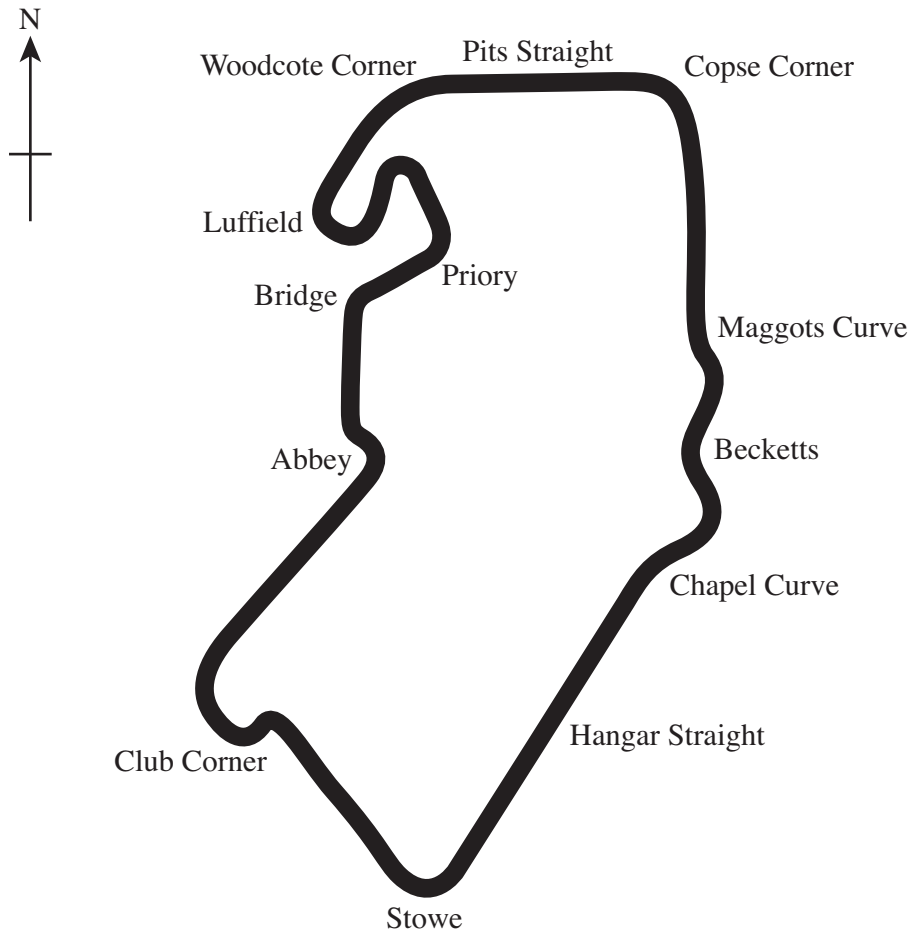**(c) (i)** Measure the length of the line BC.
Give the units of your answer.

(c)(i) ....[2]

(ii) Work out the perimeter of the square.

(ii) ....[2]

6

[Turn over

9 **(a)** This is a plan of Silverstone motor racing circuit.

(i) Which corner is North-West of Stowe?

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

(ii) A car travels along the Pits Straight towards Copse Corner.

In which direction is the car travelling?

(ii) ....[1]

(iii) Which straight is between Chapel Curve and Stowe?

(iii) ....[1]

(b) In a race, Michael (M), David (D) and Pablo (P) finish in the first three places.

List all the ways these drivers could have finished.
The first one is done for you.

First	Second	Third
M	D	P

You may not need all the lines
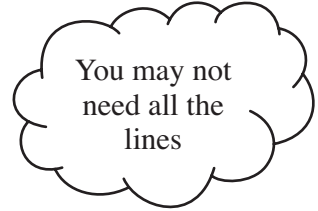
[2]

5

10 (a) Alan works for 8 hours.
He is paid £6·40 for each hour.

Work out 8 × £6·40.

(a) £ ....[2]

(b) Cheryl works for four weeks.
She is paid £552 altogether.

How much is this for each week?

(b) £ ....[2]

4

[Turn over

11 (a) (i) What is the name of this shape?
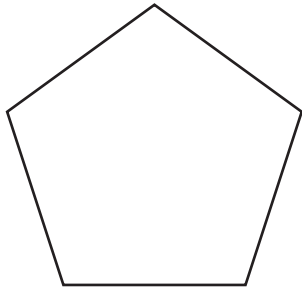
(a)(i) ....[1]

(ii) How many sides does an octagon have?

(ii) ....[1]

(b) (i) What is the area of the shape below?
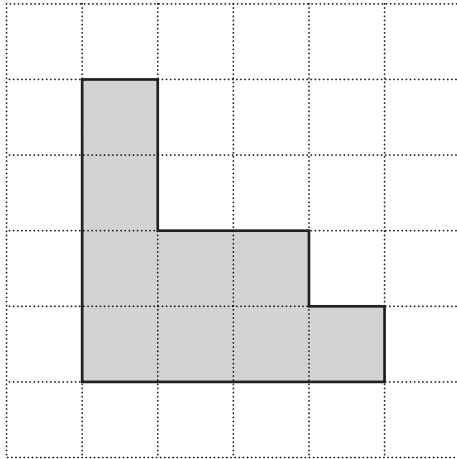
(b)(i) .... cm^2 [1]

(ii) Draw a **square** with the same area.
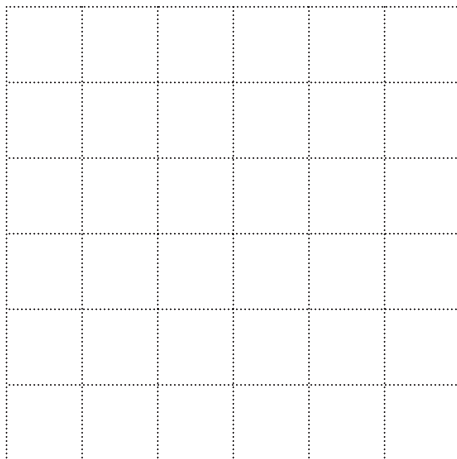
[1]

4

12   This table shows the prices at a cinema.

	Afternoon	Evening
Adult	£4·60	£6·50
Child	£3·30	£4·50

Mrs Ghani and her two children go to the cinema.

How much cheaper is it for them to go in the afternoon instead of the evening?

£ ....[4]

4

TURN OVER FOR QUESTION 13

13 Draw an enlargement of this shape.
   Make each line twice as long.
   One line has been drawn for you.

[2]