OCR

RECOGNISING ACHIEVEMENT

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

General Certificate of Secondary Education

MATHEMATICS C
(Graduated Assessment)

1966/2331A

MODULE M1 – SECTION A

Monday **23 JANUARY 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.
- 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

- 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.

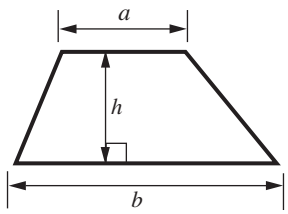
FOR EXAMINER'S USE	
Section A	
Section B	
TOTAL	

This question paper consists of 8 printed pages.

[Turn over

Formula Sheet

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



1 Fill in the missing numbers.

(a)

$$\begin{array}{r} 4\ 8 \\ +\ 3\ 7 \\ \hline \square\ \square \\ \hline \end{array}$$

[1]

(b)

$$\begin{array}{r} 9\ 3 \\ -\ 6\ 7 \\ \hline \square\ \square \\ \hline \end{array}$$

[2]

(c) $7 \times 5 = \square\ \square$

[1]

4

2 Here is a list of numbers.

32 33 36 41 45 47 50

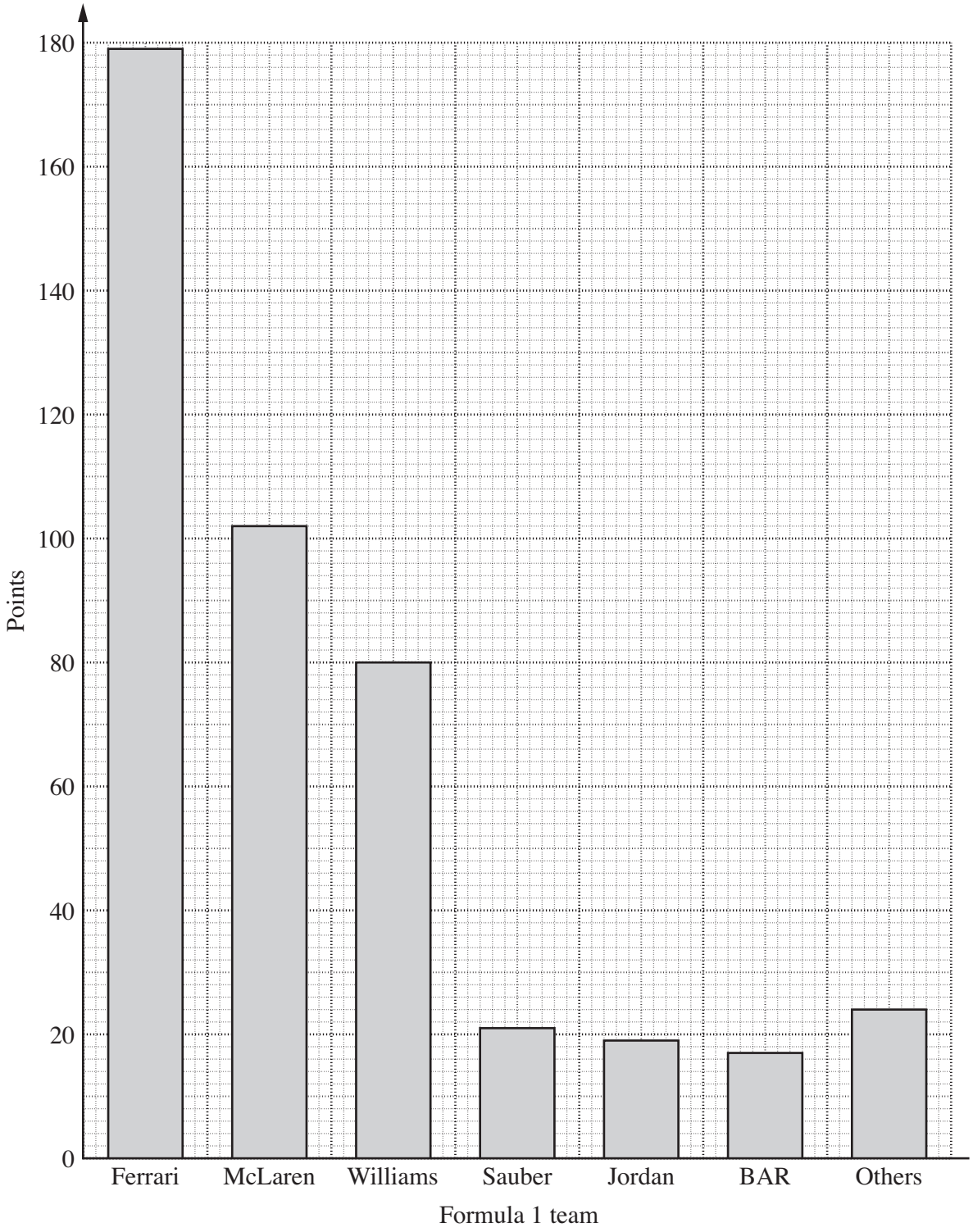
Use a number from this list to complete each sentence.

(a) ..... is an odd number less than 40. [1]

(b) ..... is even **and** divisible by 5. [2]

3

3 **(a)** This chart shows the number of points awarded to each Formula 1 team in 2001.



(i) Which team had the most points?

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

(ii) How many points did Williams have?

(ii) .....[1]

(iii) Which team had 17 points?

(iii) .....[1]

(b) This Formula 1 car is 4·55 m long.

How many centimetres is this?

An illustration has been removed due to third party copyright restrictions

Details: An illustration of a Formula 1 car

(b) .....[1]

(c) It costs £80 for a Junior Drive at Silverstone.
Gareth pays $\frac{1}{4}$ of the cost and his father pays the rest.

Work out $\frac{1}{4}$ of £80.

(c) £.....[1]

5

4 **(a)** Look at this number pattern.

54 48 42 36 30 24 …

(i) What is the next number in the pattern?

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

(ii) Explain how you worked out your answer.

.....

.....[1]

(b) Find the missing numbers.

(i) $28 + \blacklozenge = 40$

(b)(i) ◆ = ...[1]

(ii) $\blacktriangle + \blacktriangle = 10$

(ii) ▲ = ...[1]

4

5 **(a)** Arrange these numbers in order of size, starting with the smallest.

3861 **8163** **3618** **6318** **3816**

.... [2]
smallest

(b) Write 3861 in words.

.....

.....[1]

(c) **(i)** Round 143 to the nearest 10.

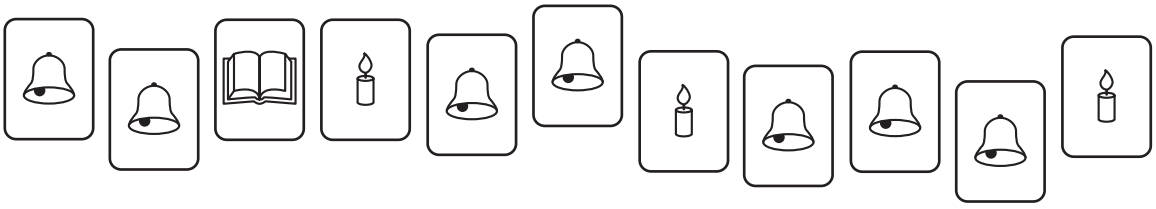
(c)(i) .....[1]

(ii) Round 1289 to the nearest 100.

(ii) .....[1]

5

6 Sandra has these cards.



She picks a card without looking.

Complete the sentences below.
Choose from these words.

impossible *evens* *certain*
unlikely *likely*

(a) It is ..... that Sandra's card will show a bell. [1]

(b) It is ..... that Sandra's card will show a dog. [1]

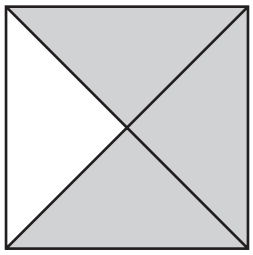
2

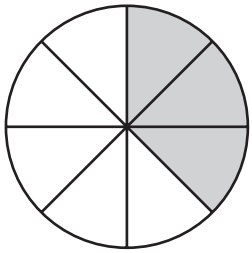
TURN OVER FOR QUESTION 7

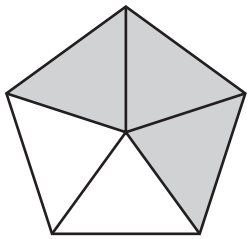
7 Sadie has tried to shade $\frac{3}{4}$ of each shape.

Put a tick (✔) under those which are right.

Put a cross (✘) under those which are wrong.







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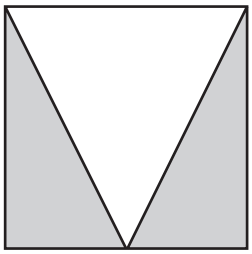

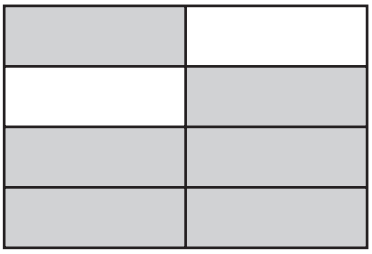

.... [2]

2