RECOGNISING ACHIEVEMENT

Oxford Cambridge and RSA Examinations

General Certificate of Secondary Education

Mathematics C (Graduated Assessment) 1966/2341A (F)

FOUNDATION TIER TERMINAL PAPER – SECTION A

Specimen Paper 2003

Candidates answer on the question paper

Additional materials:

Tracing paper (optional)
Geometrical instruments
Pie chart scale

TIME 1 hour

Candidate Name	Centre Number	Candidate Number

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the boxes above.
- Answer **all** the questions.
- Write your answers, in blue or black ink, in the spaces provided on the question paper.
- 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 correct working even if the answer is incorrect.

INFORMATION FOR CANDIDATES

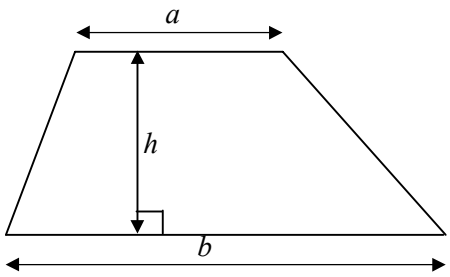
- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total mark available for this section is 50.

For Examiner's use only	
Section A	
Section B	
Total	

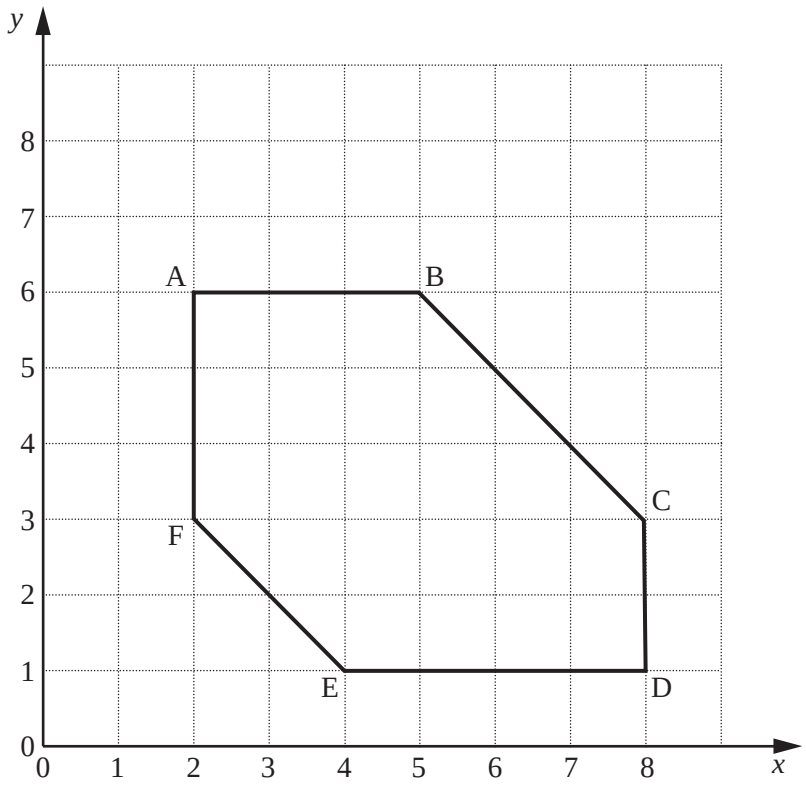
WARNING
You are not allowed to use a calculator in Section A of this paper.

FORMULAE SHEET: FOUNDATION TIER

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



1



(a) Write down the co-ordinates of A.

(a) (_____, _____) [1]

(b) What is the name of the shape drawn on the grid?

(b) _____ [1]

(c) Measure the length of the side BC.

(c) _____ [2]

(d) Find the perimeter of the shape.

(d) _____ [2]

(e) Find the area of the shape.

(e) _____ cm^2 [2]

8

2 Look at these numbers.

2 8 16 25 31 45 56

From this list, write down

(a) an odd number,

(a) _____ [1]

(b) a square number,

(b) _____ [1]

(c) a multiple of 5,

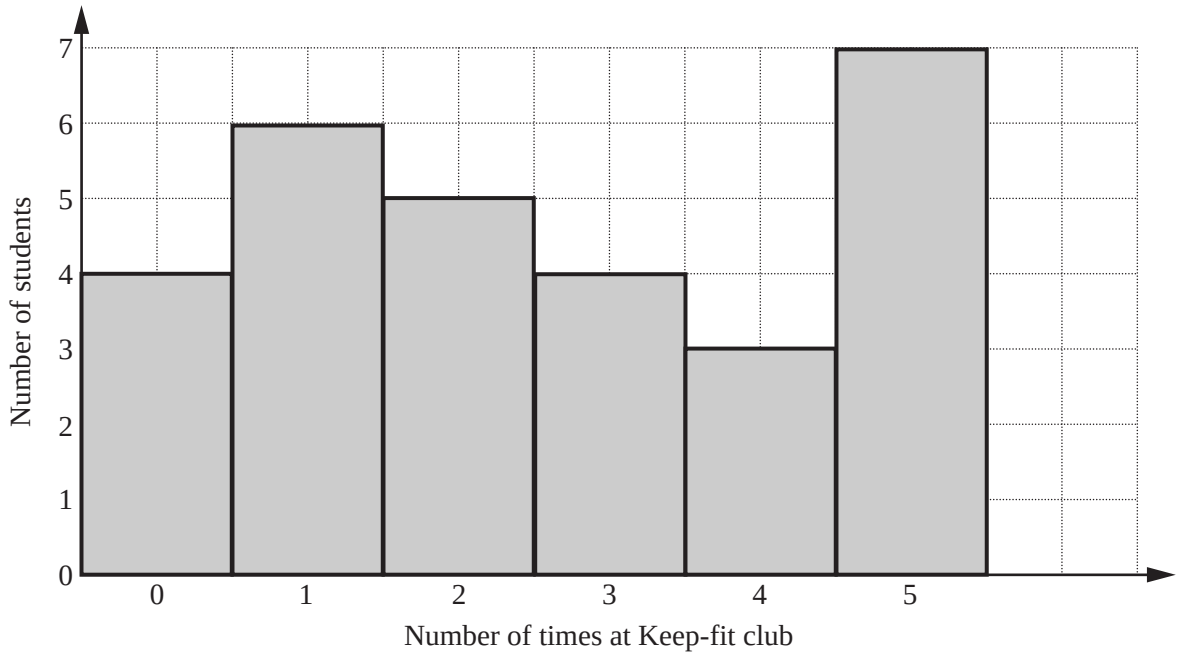
(c) _____ [1]

(d) two numbers with a difference of 15.

(d) _____ and _____ [1]

4

3 This bar chart shows the number of times that a group of year 11 students attended the keep-fit club in a 5 week period.



(a) How many students went to the club 3 times?

(a) _____ [1]

(b) How many went to the club more than 3 times?

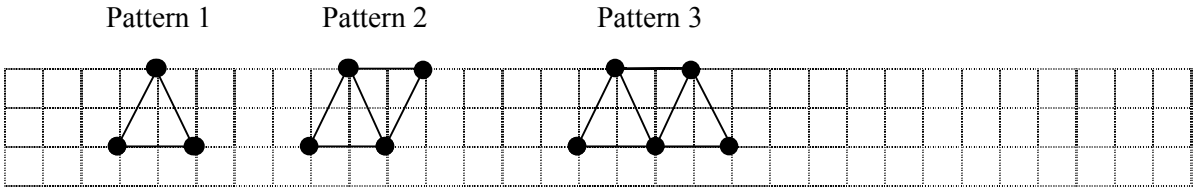
(b) _____ [1]

(c) How many students were there in the group?

(c) _____ [2]

4

4 Sally is making patterns using dots and lines.



(a) Draw the next pattern on the grid. [1]

(b) Complete this table. [1]

Pattern	1	2	3	4	5
Number of dots	3	4	5		
Number of lines	3	5	7		

(c) For pattern 12, work out

(i) the number of dots,

(c)(i) _____ [1]

(ii) the number of lines.

(ii) _____ [1]

(d) Explain how you worked out

(i) the number of dots in pattern 12,

_____

_____ [1]

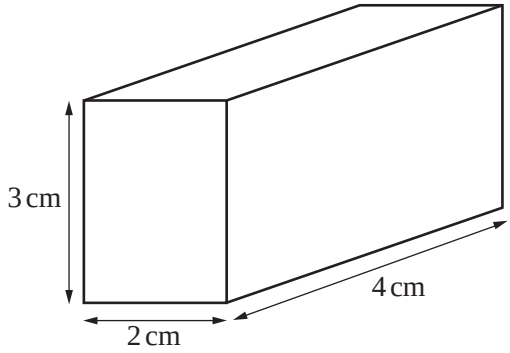
(ii) the number of lines in pattern 12.

_____

_____ [1]

6

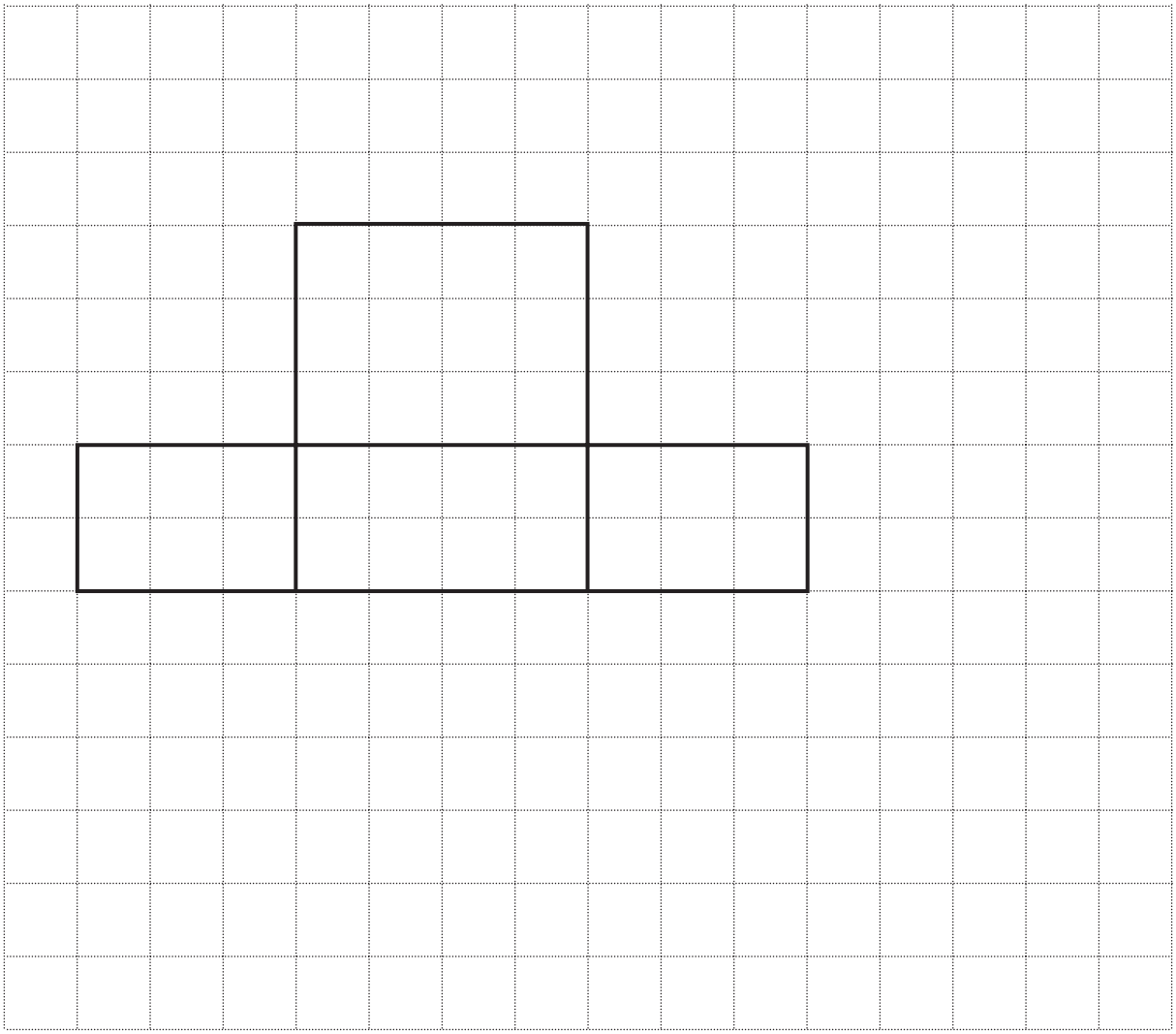
5 The diagram shows a cuboid.



(a) Work out the volume of the cuboid.

(a) _____ cm^3 [2]

(b) Complete a full-size net of the cuboid by drawing the other two faces.



[1]

3

6 The chart shows the temperature at midnight on 5 nights in Aberdeen.

Day	Mon	Tues	Wed	Thurs	Fri
Temperature °C	⁻5	2	4	0	⁻3

(a) (i) Write these temperatures in order, lowest first.

_____ [1]

(ii) What is the difference between the highest and lowest temperatures?

(ii) _____ °C [1]

(b) On Saturday night the temperature was 4°C higher than Friday night.

What was the temperature on Saturday night?

(b) _____ °C [1]

3

7 Solve these equations.

(a) $2x = 12$

(a) $x =$ _____ [1]

(b) $4x + 1 = 13$

(b) $x =$ _____ [1]

(c) $5x - 2 = 3x + 9$

(c) $x =$ _____ [2]

5

8 Farida is looking for a car to buy.
The car she likes is priced at £5600.
The hire purchase terms are

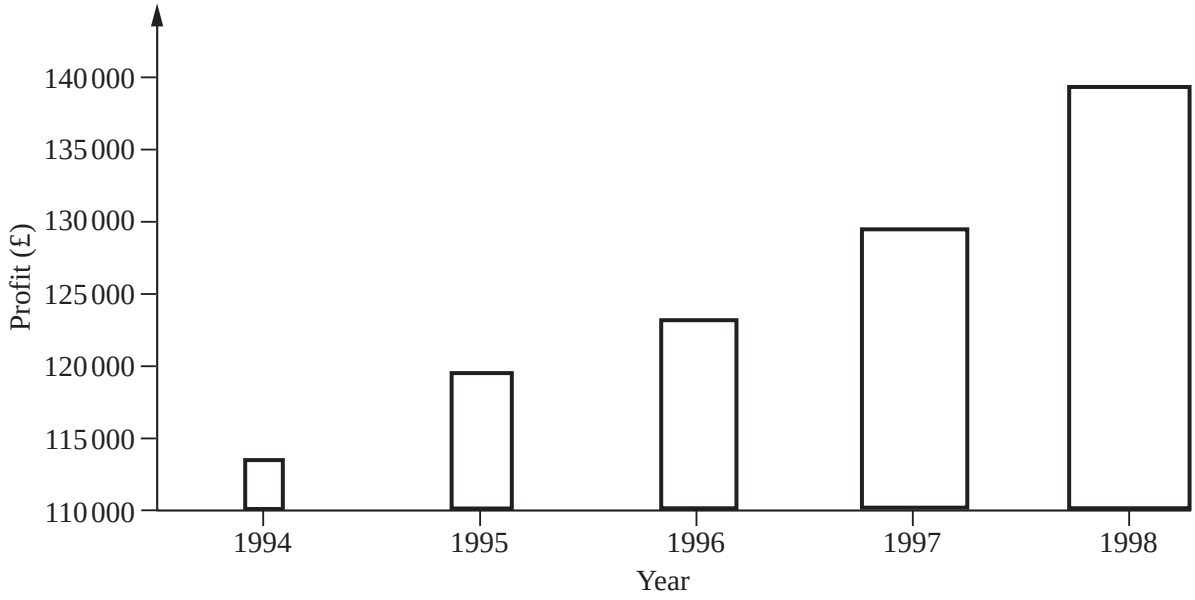
Deposit: $\frac{1}{4}$ of the purchase price
PLUS
36 monthly instalments of £175·50

Calculate how much she will pay altogether for the care on hire purchase.

£ _____ [5]

5

9 For this diagram, give two reasons why it might be misleading.



1 _____

_____ [1]

2 _____

_____ [1]

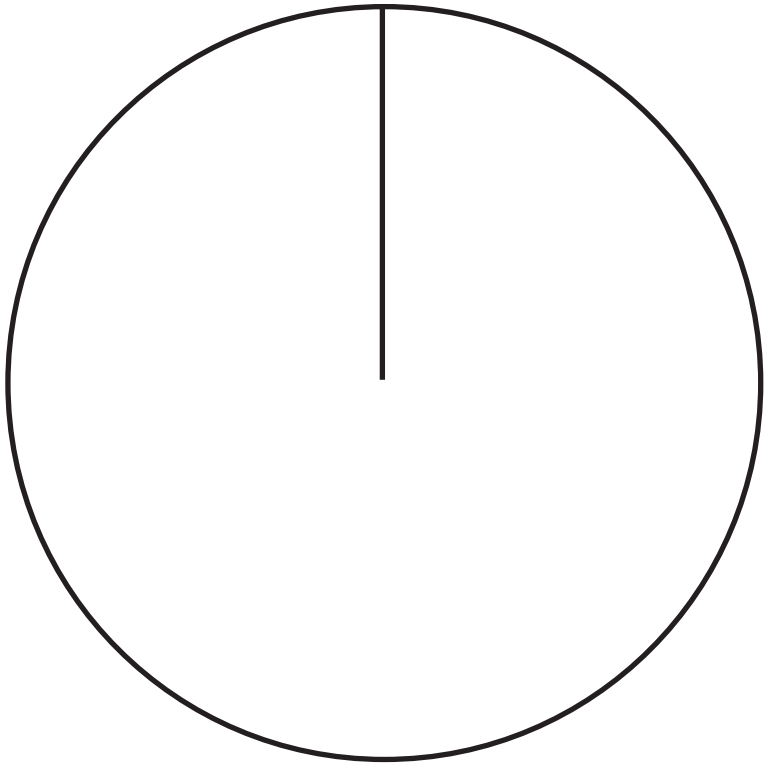
2

10 Yvonne recorded the makes of 50 cars that were parked on Edgedale Road.

These are her results.

Make of car	Number
Ford	12
Vauxhall	18
Rover	6
Toyota	5
Other	9

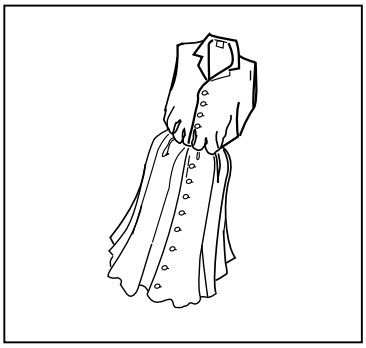
Draw and label a pie chart to illustrate this information. [3]



3

11 This dress was £200.
It is reduced by £70.

Work out the percentage reduction.



_____% [2]

2

12 **(a)** Mark drives 34 890 miles in a year.
He wants to know roughly how many miles this is per week.

Write down a calculation Mark could do in his head to **estimate** how many miles he drives each week.

(a) _____ = _____ miles [3]

(b) On Thursday Mark drives 132 km in 1 hour 30 minutes.

Calculate his average speed in kilometres per hour.

(b) _____ km/h [3]

6