OCR
RECOGNISING ACHIEVEMENT

GENERAL CERTIFICATE OF SECONDARY EDUCATION
MATHEMATICS C (GRADUATED ASSESSMENT)

M1 2331A

MODULE M1 – SECTION A

MONDAY 22 JANUARY 2007

Morning

Time: 30 minutes

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

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.
- 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.

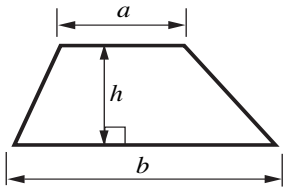
For Examiner's Use	
Section A	
Section B	
Total	

This document consists of **8** printed pages.

[Turn over

Formula Sheet

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



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1 **(a)** Write down one number which is bigger than 5000 **but** less than 5100.

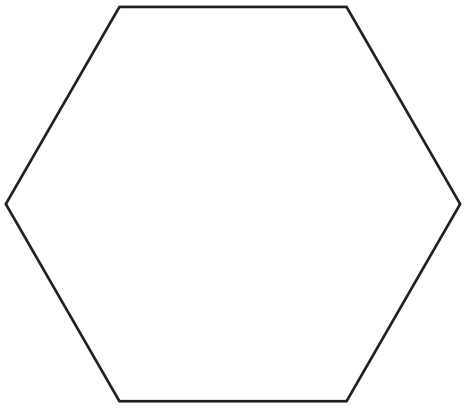
(a)..... [1]

(b) Write 5100 in words.

..... [1]

2

2 **(a)** Write down the name of this polygon.



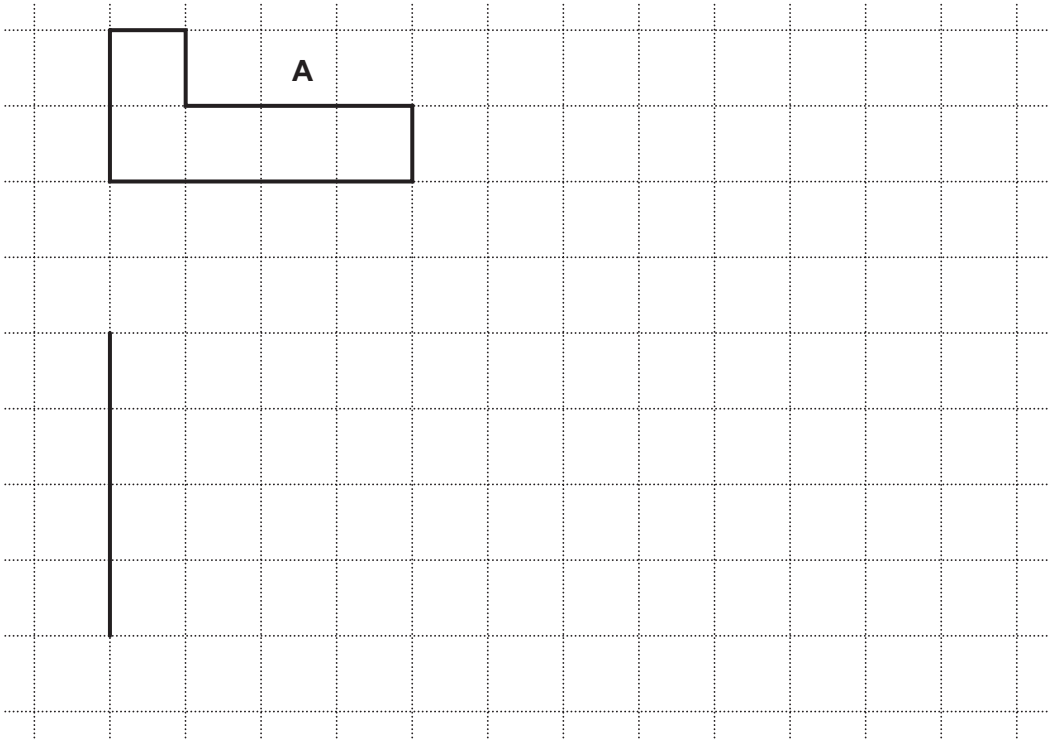
(a)..... [1]

(b) Measure the perimeter of this polygon.

(b) ..... cm [2]

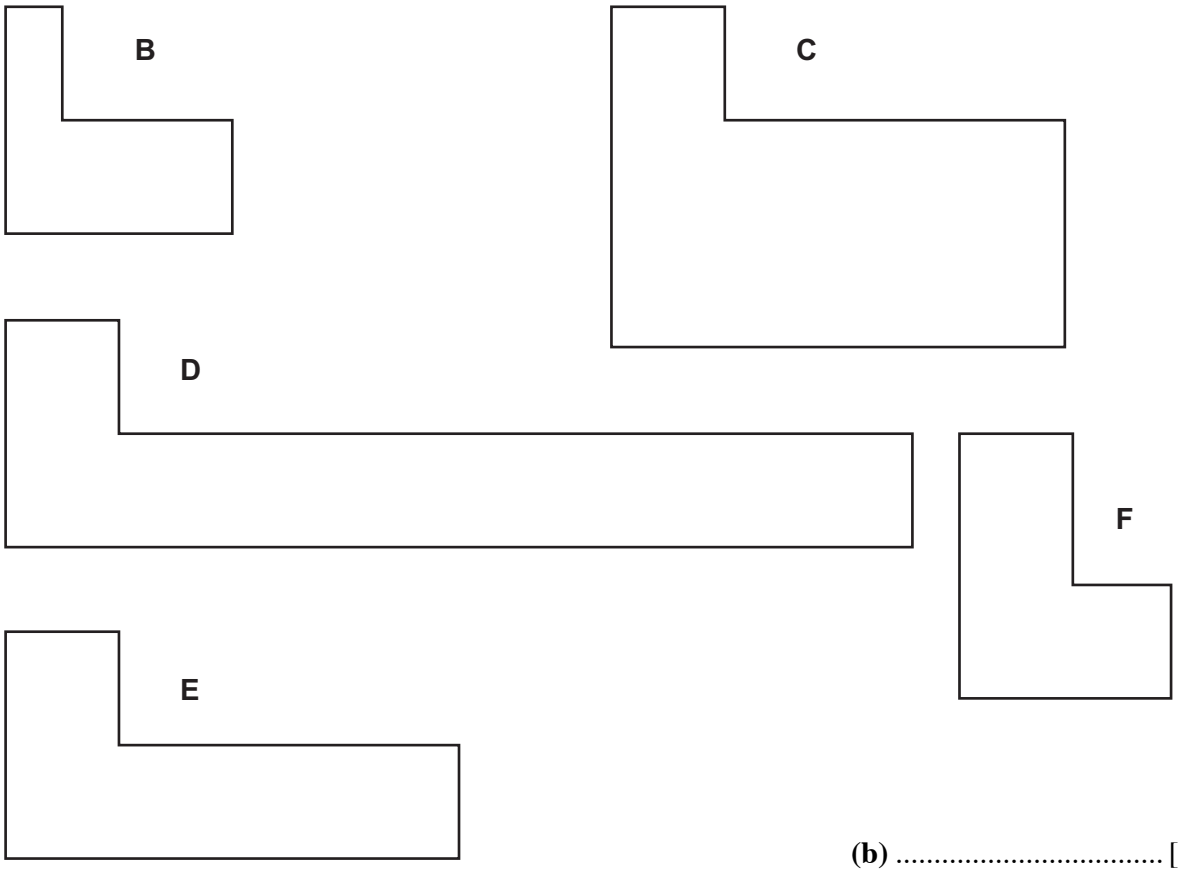
3

3 **(a)** Draw a **2 times** enlargement of shape **A**.
The first line has been drawn for you.



[3]

(b) Which one of these shapes is an enlargement of shape **A**?



(b) ..... [1]

4

4 **(a)** In this grid, put a ring round each number that is divisible by 10.

51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70

[1]

(b) In this grid, put rings round two even numbers.

51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70

[1]

(c) In this grid, some numbers have been shaded.

51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70

(i) Write down the next number in the shading pattern.

52, 55, 58, 61, 64, ... [1]

(ii) Explain how you worked out your answer.

.....[1]

(d) **(i)** In this grid, shade a different number pattern of your own.

51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70

[1]

(ii) Explain how to work out the next number in your pattern.

.....[1]

6

5 Find the missing numbers.

(a) 6 +  = 13

(a)  = ... [1]

(b)  × 9 = 27

(b)  = ... [1]

(c) 40 −  = 13

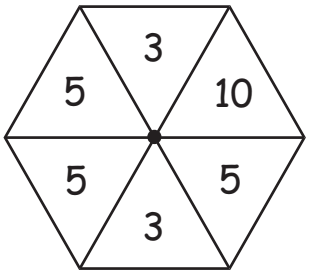
(c)  = ... [1]

(d) 35 ÷  = 7

(d)  = ... [1]

4

6 Steve and Gerry are playing a game with this spinner.



Use numbers to complete the sentences below.

It is **evens** that the spinner will land on ..... . [1]

It is **unlikely** that the spinner will land on ..... . [1]

It is **impossible** that the spinner will land on ..... . [1]

3

7 This is Martin's homework.
He has made some mistakes.

$$\begin{array}{r} 57 \\ +\ 25 \\ \hline 72 \end{array}\ \text{X} \qquad \begin{array}{r} 90 \\ -\ 39 \\ \hline 61 \end{array}\ \text{X} \qquad \begin{array}{r} 8 \\ \times\ 6 \\ \hline 56 \end{array}\ \text{X}$$

Work out the correct answers.

$$\begin{array}{r} 57 \\ +\ 25 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 90 \\ -\ 39 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ \times\ 6 \\ \hline \\ \hline \end{array}$$

[3]

3

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