OCR
RECOGNISING ACHIEVEMENT

B271A

GENERAL CERTIFICATE OF SECONDARY EDUCATION
MATHEMATICS C (GRADUATED ASSESSMENT)
MODULE M1 – SECTION A

M1

TUESDAY 24 JUNE 2008

Morning
Time: 30 minutes

Candidates answer on the question paper
Additional materials (enclosed):   None

Additional materials (required):
Geometrical instruments
Tracing paper (optional)

Candidate Forename		Candidate Surname	

Centre Number		Candidate Number	

INSTRUCTIONS TO CANDIDATES

*   Write your name in capital letters, your Centre Number and Candidate Number in the boxes above.
*   Use blue or black ink. Pencil may be used for graphs and diagrams only.
*   Read each question carefully and make sure that you know what you have to do before starting your answer.
*   Show your working. Marks may be given for a correct method even if the answer is incorrect.
*   Answer **all** the questions.
*   Do **not** write in the bar codes.
*   Write your answer to each question in the space provided.

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**.
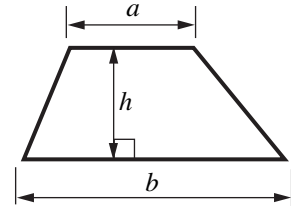
WARNING

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

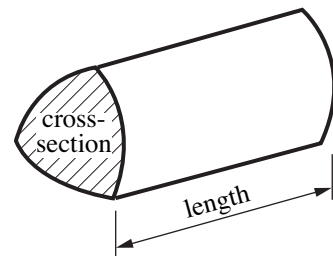| FOR EXAMINER'S USE	
SECTION A	
SECTION B	
TOTAL	

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

[Turn over

Formulae Sheet

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

Volume of prism = (area of cross-section) × length

PLEASE DO NOT WRITE ON THIS PAGE

1 Work out.

   (a) 37 + 94 = ... [1]

   (b) 8 × 6 = ... [1]

   (c) 87 − 13 = ... [1]

   (d) 45 ÷ 9 = ... [1]

2 The Titanic and the Lusitania were ships.

   (a) The Titanic was 883 feet long.

     Write 883 to the nearest ten.

             (a) .... [1]

   (b) The Lusitania was 780 feet long.

     Write 780 to the nearest hundred.

             (b) .... [1]

[Turn over

3 **(a)** **(i)** Write down the name of this polygon.
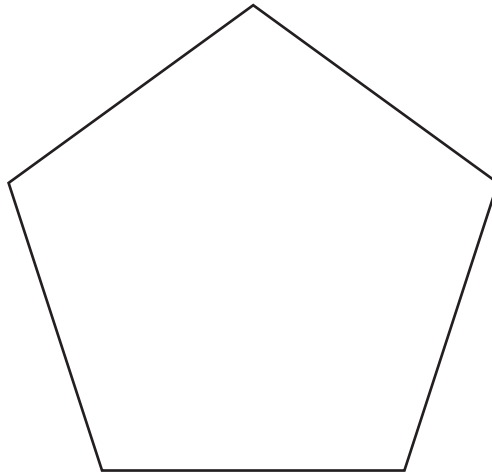
(a)(i) .... [1]

(ii) Measure the perimeter of this polygon.

(ii) .... cm [2]

(b) **(i)** Which of these shapes have one quarter shaded?
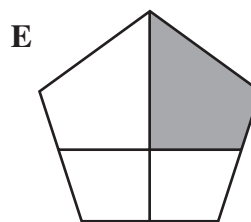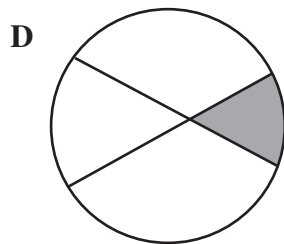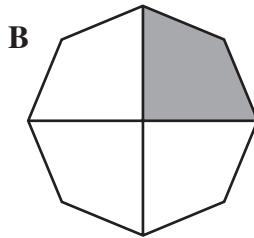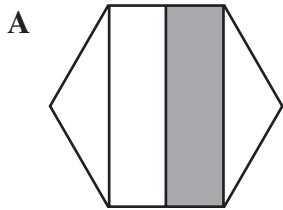
(b)(i) .... [2]

(ii) Work out $\frac{3}{4}$ of 36.

(ii) .... [1]

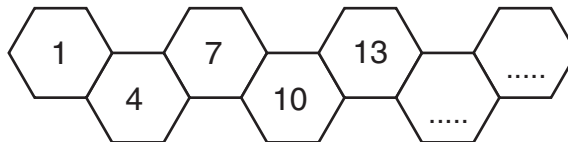**4** **(a)** Put a cross on each of the even numbers in this pattern.
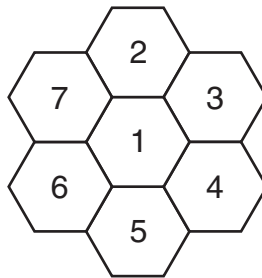
[1]

(b) Put a cross on each number that is divisible by 5 in this pattern.
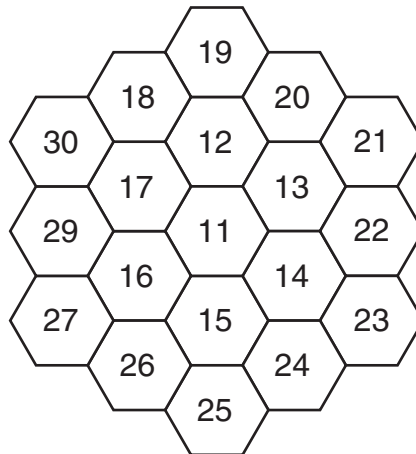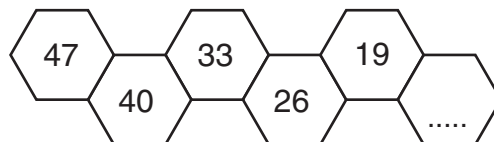

[2]

(c) The rule for this number pattern is

add 3.

Use the rule to continue this number pattern.

[1]

(d) (i) Fill in the missing number in this pattern.

[1]

(ii) Explain how you worked it out.

.... [1]

[Turn over

5 Find the missing numbers.

(a) $7 \times$ 🚹 $= 28$

(a) 🚹 = ... [1]

(b) $17 +$ 🐕 $= 25$

(b) 🐕 = ... [1]

6 This pictogram shows the numbers of cups of different drinks sold from a machine one day.

Tea	▼▼▼▼
Coffee	▼▼▼▼▼▼❘
Hot chocolate	▼▼
Soup	▼❘

Key	▼ = 10 cups

(a) How many cups of hot chocolate were sold?

(a) .... [1]

(b) How many cups of coffee were sold?

(b) .... [1]

7 Ailsa is baking some cakes.

(a) She puts 4 rows of 6 cakes on the baking tray.

How many cakes are there altogether on the tray?
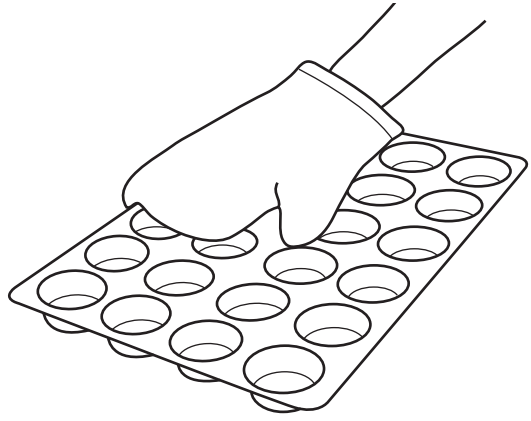
(a) .... [1]

(b) This clock shows the time she puts the cakes in the oven.

(i) What time does the clock show?
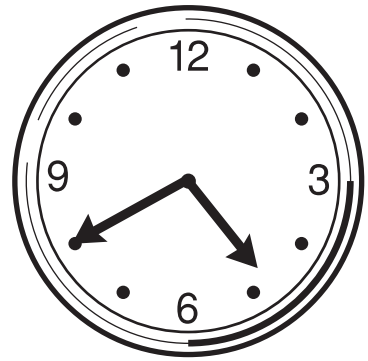
(b)(i) .... [1]

(ii) Ailsa takes the cakes out of the oven half an hour later.

What time is this?

(ii) .... [1]

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