

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

M1

MONDAY 21 JANUARY 2008

Morning
 Time: 30 minutes

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



* G U P / T 5 4 4 3 3 *

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.
- Do **not** write outside the box bordering each page.
- 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.



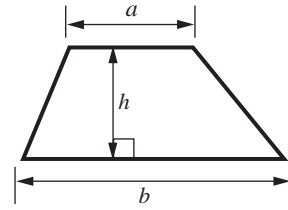
WARNING
 You are not allowed to use a calculator in Section A of this paper.

FOR EXAMINER'S USE	
SECTION A	
SECTION B	
TOTAL	

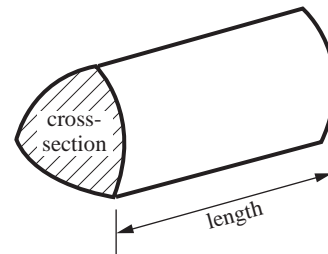
This document consists of **8** printed pages.

Formulae Sheet

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



Volume of prism = (area of cross-section) \times length



PLEASE DO NOT WRITE ON THIS PAGE

1 Work out.

(a) 8×6

(a)..... [1]

(b) $45 \div 9$

(b)..... [1]

(c) $57 + 28$

(c)..... [1]

(d) $72 - 35$

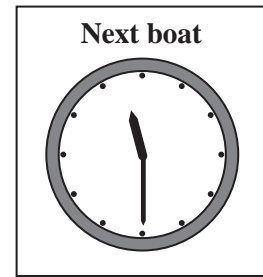
(d)..... [1]

4

2 Lena is going on a boat trip.

- (a) She arrives at 11:10 am.
The boat leaves at 11:30 am.

How long does she have to wait for the boat?



(a)..... minutes [1]




- (b) Lena buys two adult tickets and three child tickets.

Adult	£12.00
Child	£6.00

How much does she pay altogether?

(b) £ [3]

- (c) Everyone is asked what they thought of the trip.
This pictogram shows some of the answers.

Excellent	
Good	
OK	
Poor	

Key	 = 2 people
-----	--

- (i) How many people said **Excellent**?

(c)(i) [1]

- (ii) Ten people said **OK**.

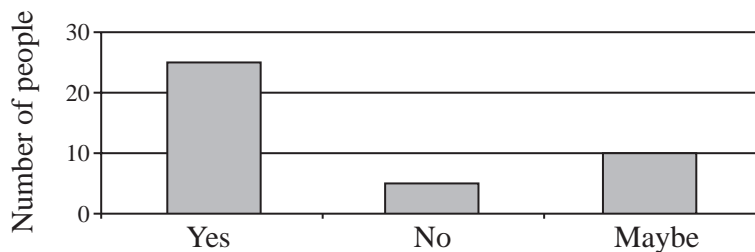
Show this on the pictogram.

[1]

- (iii) How many people said **Poor**?

(iii) [1]

- (d) Everyone is asked whether they would recommend this trip to a friend.
This bar chart shows the answers.



- (i) How many people said **Maybe**?

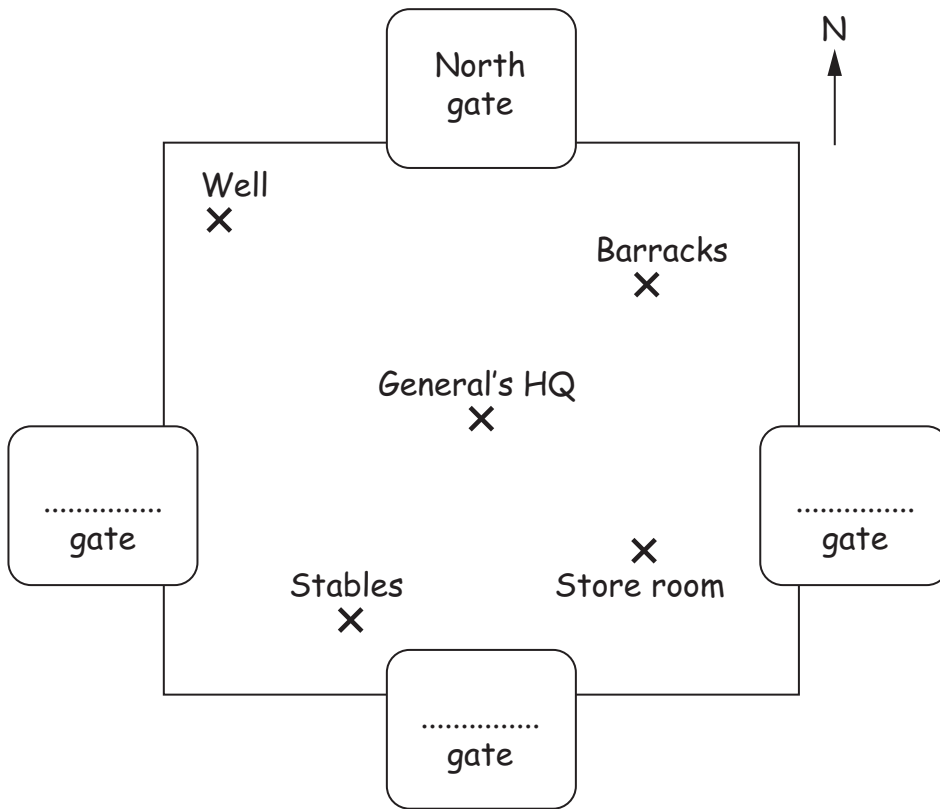
(d)(i) [1]

- (ii) Lena said: **Most people would recommend the trip to a friend.**

Explain why the bar chart shows that Lena is correct.

.....
..... [1]

3 (a) This is a sketch map of a Roman fort.



(i) The North gate is labelled.

Label the South gate, East gate and West gate.

[2]

(ii) Claire walks North West from the General's HQ.

Where does she get to next?

(a)(ii)..... [1]

(b) The Romans invaded Britain in the year 43 AD.

Work out when the Romans left Britain.

Romans invaded Britain	year	43	AD
Romans stayed		367	years
Romans left Britain	year	AD

[2]

5

4 Here are the first four terms of a number pattern.

91 88 85 82

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

(a)..... [1]

(b) Explain how you worked out your answer.

.....
..... [1]

2

5 (a) The tallest tower in the world is the *CN Tower* in Canada.
It is 553 metres tall.

Write 553 to the nearest hundred.

(a)..... [1]

(b) The tallest building in the world is *Taipei 101* in Taiwan.
It is 509 metres tall.

Write 509 in words.

..... [1]

2

TURN OVER FOR QUESTION 6

6 Delvin is at the gym.

The clock shows the time he starts training.



(a) What time does the clock show?

(a)..... [1]

(b) He warms up for 5 minutes.
He then runs for 40 minutes.
He stretches for 10 minutes.

At what time does he finish his training?

(b) [2]

3

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