

**GENERAL CERTIFICATE OF SECONDARY EDUCATION
MATHEMATICS C (GRADUATED ASSESSMENT)**

M2 2332A

MODULE M2 – 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

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Candidate
Number

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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.

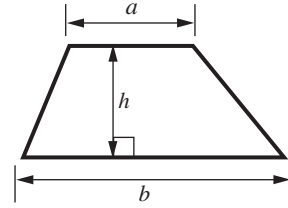
WARNING
**You are not allowed to use a
calculator in Section A of this paper.**

For Examiner's Use	
Section A	
Section B	
Total	

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

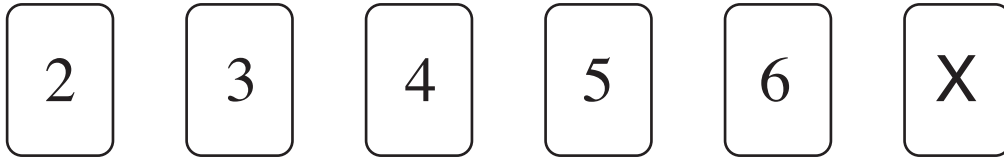
Formula Sheet

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



PLEASE DO NOT WRITE ON THIS PAGE

1 Jim has these cards.



He uses these four cards to make 208.

$$5 \ 2 \ X \ 4 = 208$$

Use four of the cards to make 126.

$$\square \ \square \ \square \ \square = 126$$

[2]

2	
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2 (a) Write 50% as a fraction.

(a) [1]

(b) Find 50% of £36.

(b) £ [1]

2	
---	--

3 This table shows the fixtures for five teams.

		Away				
		Aston	Brookley	Cardale	Dursley	Emfield
Home	Aston		8 October	22 October	26 November	5 November
	Brookley	9 November		15 October	19 November	12 November
	Cardale	26 October	23 November		8 October	29 October
	Dursley	12 November	29 October	9 November		26 October
	Emfield	15 October	26 November	19 November	22 October	

(a) Use the table to complete the following sentences.
The first one has been done for you.

Aston play at home against Brookley on 8 October.

Dursley play at home against Cardale on

Emfield play away against on 12 November.

[2]

(b) Cardale play their first home match on 8 October.

What is the date of their next home match?

(b) [1]

3	
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4 (a) Here is a list of numbers.

31 78 67 57 82 23

(i) Write these numbers in order starting with the smallest.

..... [2]
smallest

(ii) Which two of these numbers add up to 90?

(a)(ii) and [1]

(b) Work out.

(i) 18×3

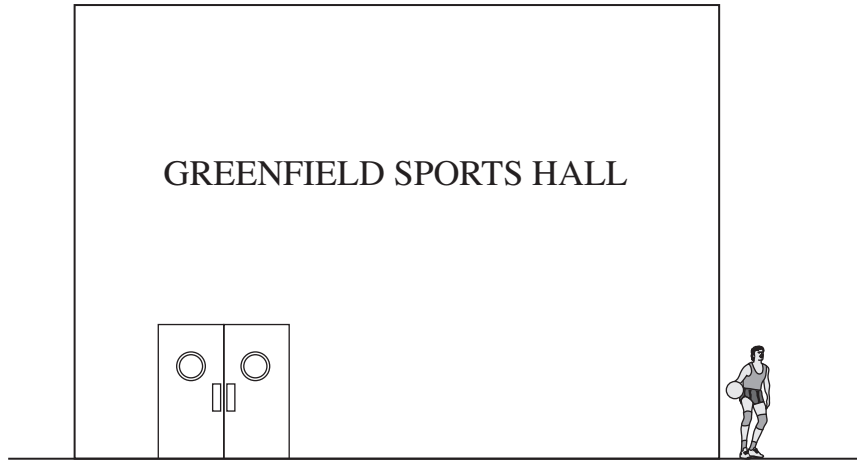
(b)(i) [1]

(ii) $145 \div 5$

(ii) [1]

5	

5 (a)

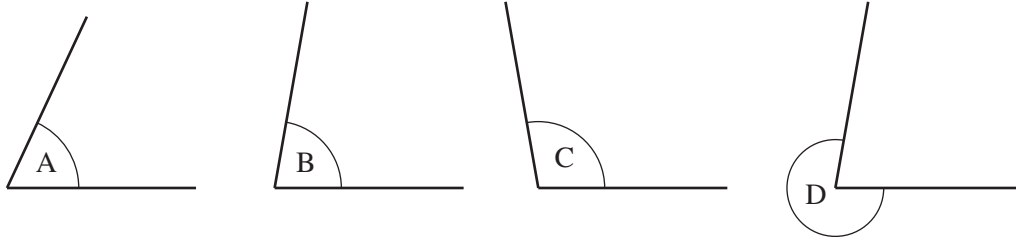
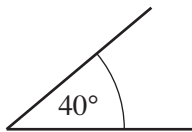


The basketball player is 2 m tall.

Estimate the height of the sports hall.

(a) m [1]

(b) This angle is 40° .



Look at the angles above.

(i) Which angle is nearest to 80° ?

(b)(i) [1]

(ii) Which angle is obtuse?

(ii) [1]

3

- 6 (a) Trevor has tiles on his bathroom wall.
There are 6 rows with 37 tiles in each row.

Work out 6×37 to find how many tiles there are altogether.
You must show your working.

(a) [2]

- (b) Trevor bought the following tools.

scraper	£ 8.90
tile cutter	£17.50
sponge	£ 1.00

How much change did he get from £30?

(b) £ [3]

- (c) Trevor needs 43 patterned tiles for the shower.
They are sold in packs of 10.

How many packs should he buy?

(c) [1]

6

7 This is the morning timetable for the school bus.

High Street	07 48
Shipp Road	08 04
Balmead Crossroads	08 15
Freeland Estate	08 21
School	08 28

(a) How long does the bus take from Shipp Road to School?

(a)minutes [1]

(b) How long does the bus take from High Street to Shipp Road?

(b)minutes [1]

(c) In the afternoon the bus leaves School at 15 45.
The journey to High Street takes the same time
as the morning journey to School.

At what time does the bus arrive at High Street?

(c) [2]

4

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