OCR					
GENERAL CERTIFICATE OF SECONDARY EDUCATION					
MODULE M4 - SECTION A					
Candidates answer on the question paper. Additional materials: Geometrical instruments Tracing paper (optional)					
Candidate Name					
Centre Candidate Number 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					
Section A					
Section B					
Total					
This document consists of 8 printed pages.					

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2 Formula Sheet







3

1 (a) Write down all the factors of 21.

(b) Complete this sentence.

The common factors of 21 and 28 are 1 and

[1] 3



The diagram shows two straight lines.

(a) Complete.

(b) Work out angle b.

Give a reason for your answer.

3 Randeep makes a spinner numbered from 1 to 4.

To test the spinner, he spins it 200 times. Here are his results.



Number	1	2	3	4
Frequency	49	77	22	52

- (a) Is the spinner fair?
 Explain your answer.
 because
 [1]
- (b) Write down the experimental probability of getting
 - (i) 2,

(b)(i) [1]

(ii) an odd number.

4 Work out.

 481×32

You must show your working.



5 Martin pours some milk into a measuring jug.



(a) How much milk is in the jug? Give your answer as a fraction.

(**a**) pint [1]

(b) He pours $\frac{1}{4}$ pint of the milk from the jug into a glass.

How much milk is left in the jug?

(b)pint [2]

6 (a) Kelly takes part in the long jump at an athletics meeting.

She takes four jumps.

Here are the lengths of her jumps, in metres.

6·58 7·4 7·25 7·02

Write these lengths in order, starting with the **longest**.

longest

[2]

(b) In the javelin competition Steve's longest throw was 75.21 m. The winning throw was 83.62 m.

How much longer was the winning throw than Steve's throw?

(b) m [2]

7 Fraser climbed to the top of Allalin mountain from the railway station.

The graph shows his height above the station during the climb.



(a) At what height above the station was he at 0900?

(a) m [1]

(b)

.....[2]

- (b) At what two times was he 200 m above the station?
- (c) The railway station is 3500 m above sea level.

What was Fraser's greatest height above sea level?

(c) m [2]

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