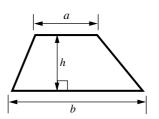
OCR RECOGNISING ACHIEVEMENT							
GENERAL CERTIFICATE OF SECONDARY EDUCATION MATHEMATICS C (GRADUATED ASSESSMENT)							
MODULE M5 – SECTION B							
MONDAY 22 JANUARY 2007			orning				
Candidates answer on the question paper.		Time: 30 m	Time: 30 minutes				
Additional materials: Geometrical instruments Tracing paper (optional) Pie chart scale (optional) Electronic calculator							
Candidate Name							
Centre Number		Candidate Number					
<ul> <li>INSTRUCTIONS TO CANDIDATES</li> <li>Write your name, Centre Number and Candidate Number in the boxes above.</li> <li>Answer all the questions.</li> <li>Use blue or black ink. Pencil may be used for graphs and diagrams only.</li> <li>Read each question carefully and make sure you know what you have to do before starting your answer.</li> <li>In many questions marks will be given for a correct method even if the answer is incorrect.</li> <li>Do not write in the bar code.</li> <li>Do not write outside the box bordering each page.</li> <li>WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED. ANSWERS WRITTEN ELSEWHERE WILL NOT BE MARKED.</li> </ul>							
INFORMATION FOR	CANDIDATES						
<ul> <li>You are expected to use a calculator in Section B of this paper.</li> <li>The number of marks is given in brackets [] at the end of each question or part question.</li> <li>The total number of marks for this Section is 25.</li> <li>Section B starts with question 7.</li> </ul>							
		For Exa	aminer's Use				
		Section I	3				
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Formula Sheet

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





3

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Details:

An image of a man baking

(a) A bag contains 500 g of sugar. Simon uses 200 g of this sugar.

What fraction of the sugar does he use? Give your answer in its simplest form.

(a).....[2]

(b) A bag contains 1.5 kg of flour.

Roughly how many pounds is this?

(b) .....pounds [2]

4

8	Simplify
---	----------

(a) 2t + 2t + 3t + 4t

(**a**).....[1]

**(b)** 5a + 2b - 3a + 4b

(**b**) ......[2]

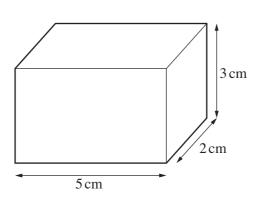
9 Here are the first 4 terms of a sequence.

96 48 24 12

(a) Write down the next two terms.

(b) What is the rule to get from one term of the sequence to the next?

.....[1]



5

(a) Work out the volume of this cuboid.

(a).....cm<sup>3</sup> [2]

- (b) Complete this **full-size** net of the cuboid by drawing the other three faces.

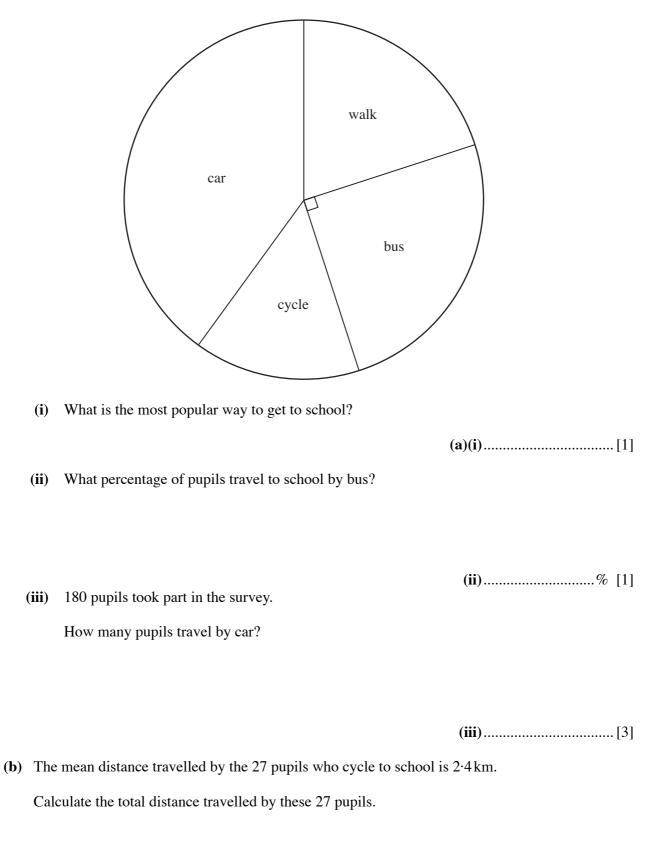


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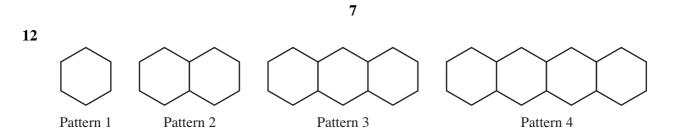
[Turn over

10

11 (a) This pie chart represents the results of a survey about how pupils travel to school.



(**b**) ..... km [2]



These patterns are made from sticks.

The table shows the number of sticks needed to make each pattern.

Pattern	1	2	3	4
Number of sticks	6	11	16	21

(a) How many sticks will you need to make Pattern 10?

(a).....[1]

2

(b) Janine says that Pattern 20 needs 102 sticks.

Without working it out, explain why she is wrong.

.....[1]

## **13** Here are three fractions.

 $\frac{2}{5} \quad \frac{1}{3} \quad \frac{3}{8}$ 

Which of these fractions is the largest? You must show your working.

.....[2]

2

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