

General Certificate of Secondary Education 2011

Mathematics



Module N1 Paper 2 (With calculator) Foundation Tier

[GMN12]

TUESDAY 31 MAY 10.30 am – 11.15 am



TIME

45 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper. Answer **all twelve** questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 44.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

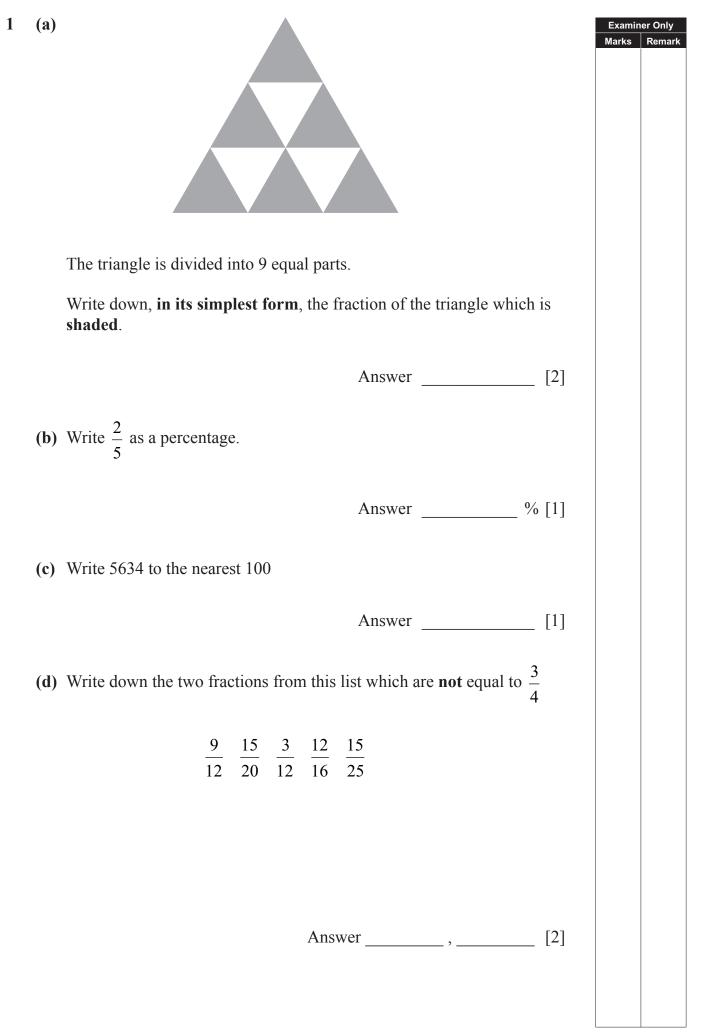
You should have a calculator, ruler, compasses, set-square and protractor.

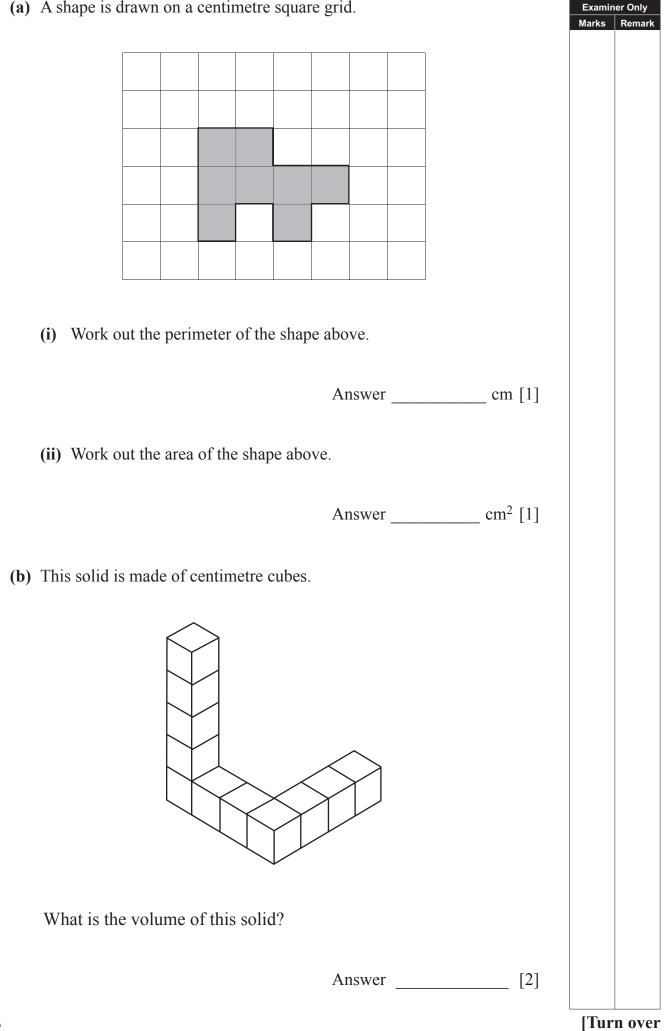
For Exa use	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
Total Marks	

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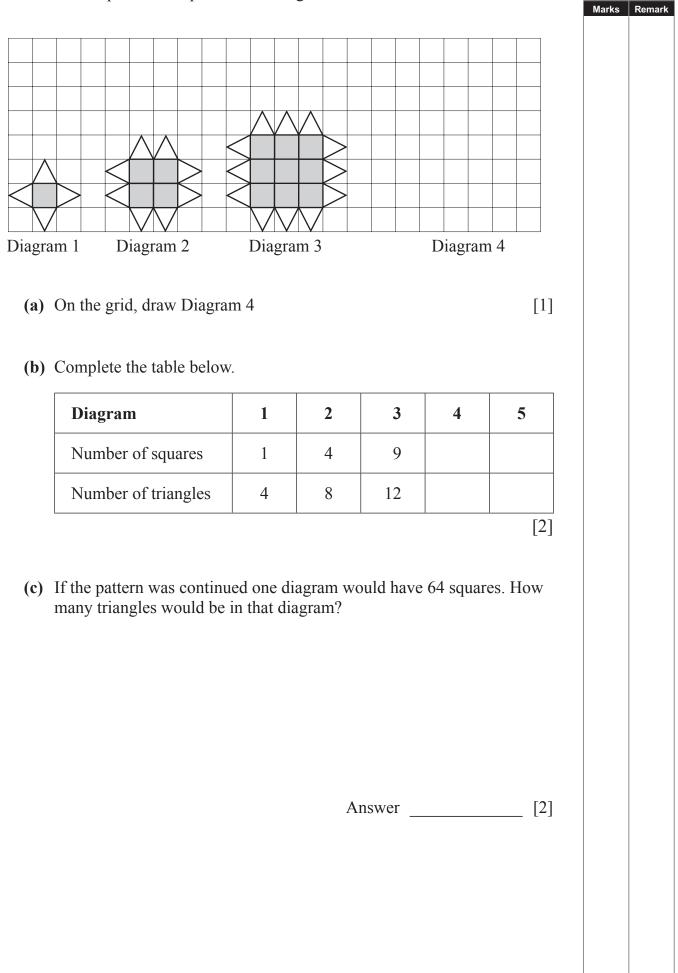


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3	The following scores were obtained in a test.	Examiner Only Marks Remark
	8, 5, 9, 6, 4, 7, 9, 8, 5, 7, 8, 6, 8, 7, 6	
	Find	
	(a) the median,	
	Answer [2]	
	(b) the mode.	
	Answer [1]	
4	(a) Write down the number forty-one thousand and twenty-two in figures.	
	Answer [1]	
	(b) Calculate $\sqrt{2.25}$	
	Answer [1]	
	(c) Write down the largest of these three numbers.	
	0.4677 0.462 0.47	
	Answer [1]	
	(d) Write 72.06619 correct to two decimal places.	
	Answer [1]	
	(e) Write 23.35 correct to three significant figures.	
	Answer [1]	

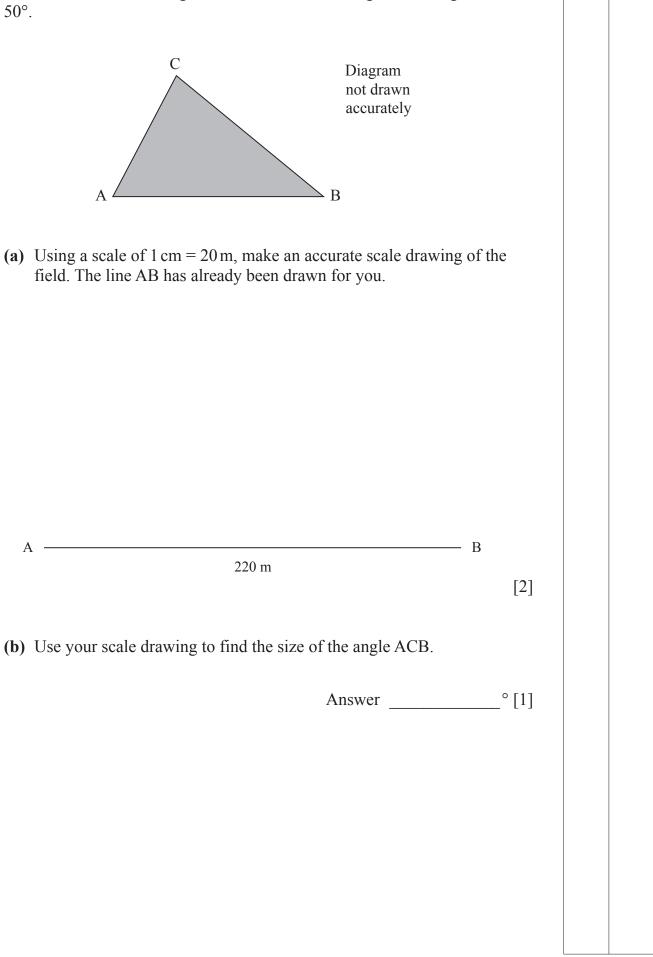


Examiner Only

6		Examiner Only Marks Remark	
	23 13 25 16 22 15 19 16 15 16	K	
	What was the mean number of boys?		
	Answer [3]		
7	Renee has £20 to buy as many pens as possible at 35p each.		
	(a) How many pens can she buy?		
	Answer [2]		
	(b) How much shange should she get?		
	(b) How much change should she get?		
	Answer p [1]		

Here is a **sketch** of a triangular field. 8

The side AB is 220 m long, the side AC is 120 m long and the angle BAC is

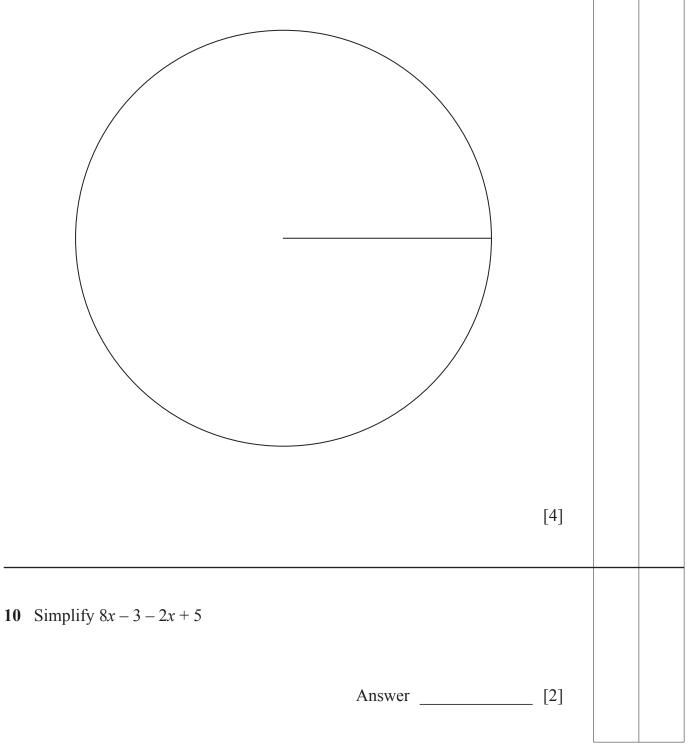


Examiner Only Marks Remark 9 The number of buns sold in a bakery was recorded as follows.

Cream	16
Fruit	10
Jam	9
Chocolate	25

Examiner Only Marks Remar

Draw a pie chart to illustrate this information.



11	(a)	A rectangular carton holds apple juice. The base of the carton has dimensions of 6 cm and 11 cm. The height of the juice in the carton is 10.5 cm above the base $(1 \text{ cm}^3 = 1 \text{ ml})$.			
		What is the volume of juice left in the carton in millilitres?			
		Apple Juice 6 cm 11 cm			
		Answer ml [2]			
	(b)	b) John pours himself a glass of juice. The volume in the carton is now 412.5 ml.			
		What is the height of the juice above the base now?			
		Answer cm [2]			
12	Cal	culate			
	(a)	the cube root of 64			
		Answer [1]			
	(b)	$3.3^2 + 6^3$			
		Answer [1]			
6386		[Turn over			

THIS IS THE END OF THE QUESTION PAPER

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