

**General Certificate of Secondary Education** January 2012

# **Mathematics**



Module N5 Paper 2 (With calculator) Foundation Tier

[GMN52]

**MONDAY 16 JANUARY** 10.45 am-11.45 am



### TIME

1 hour.

### **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 fourteen 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 56.

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. The Formula Sheet is on page 2. 7276

Question Number	Marks
1	
2	
2 3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
Total Marks	

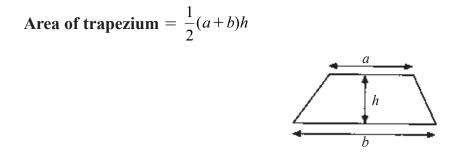
For Examiner's

use only

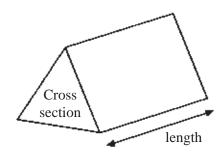
Question

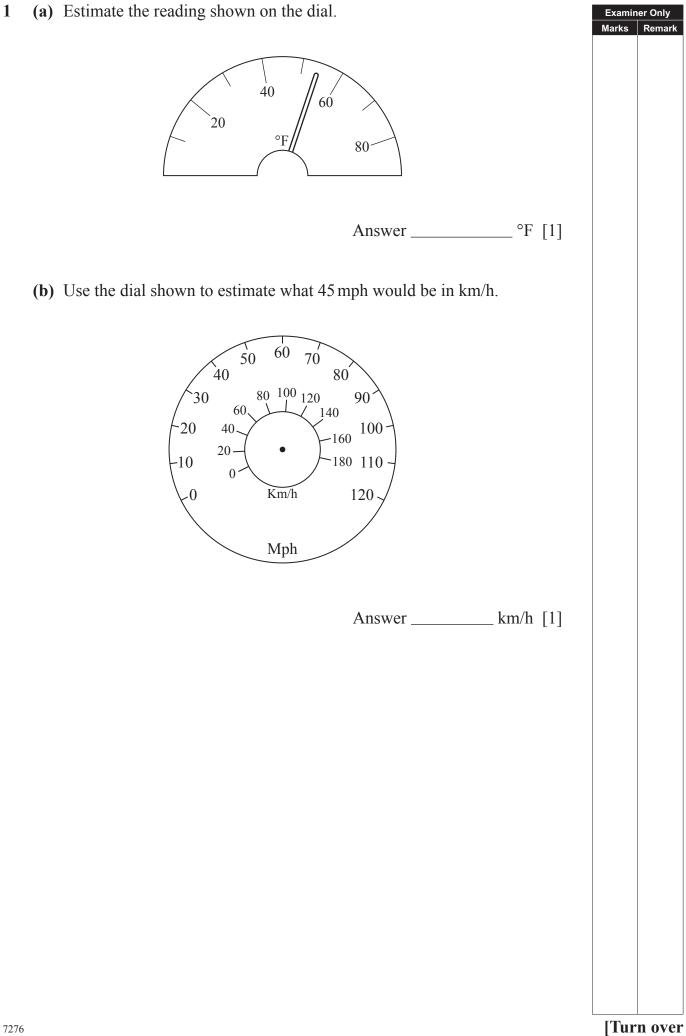
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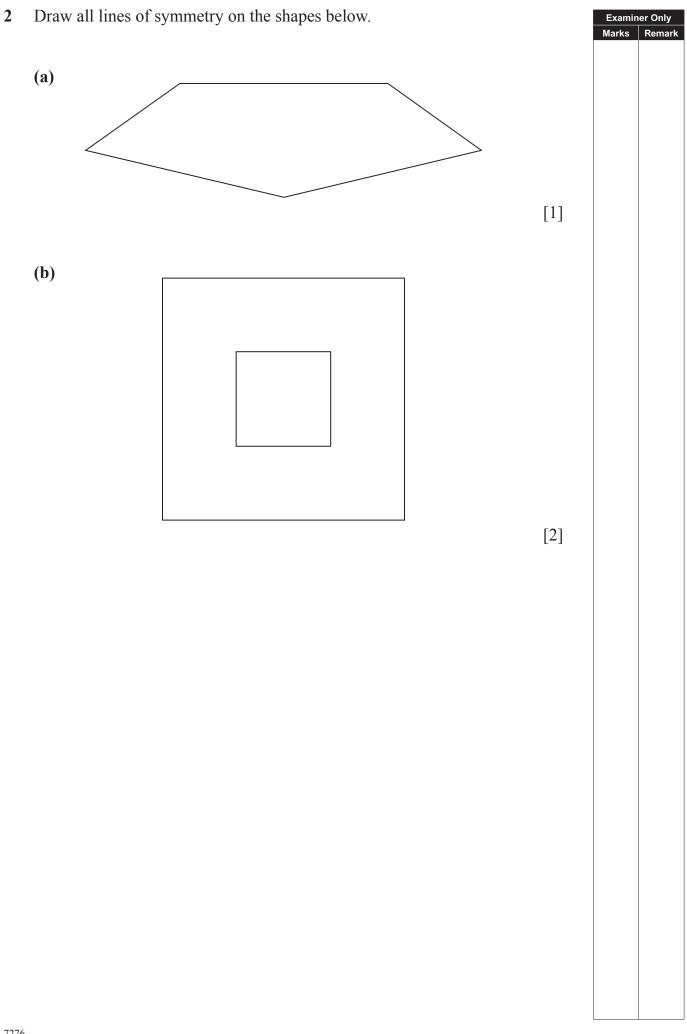
# **Formula Sheet**



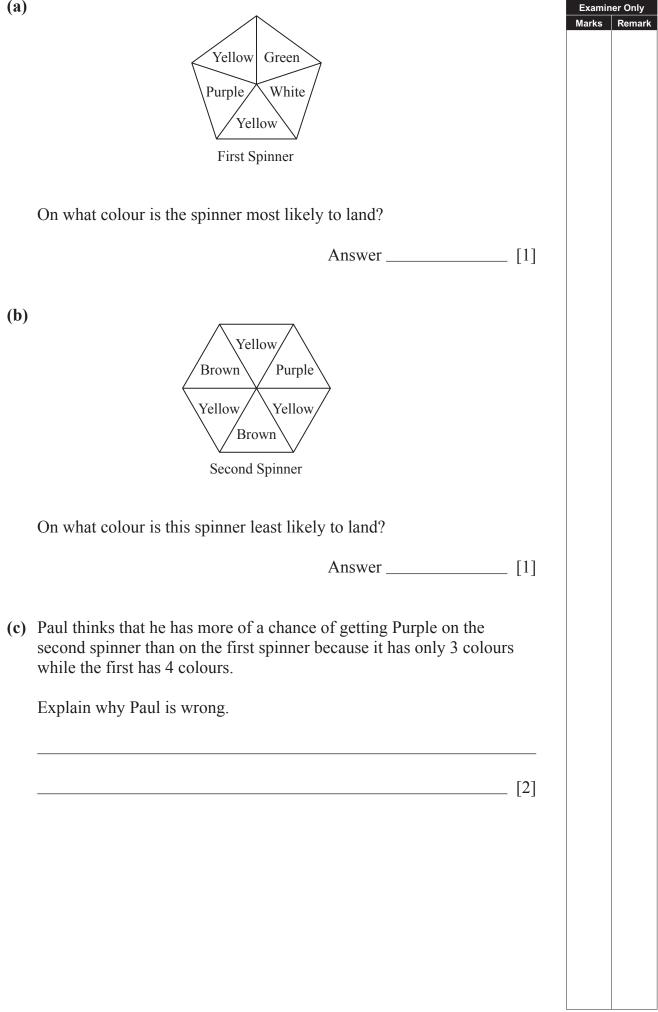
**Volume of prism** = area of cross section  $\times$  length







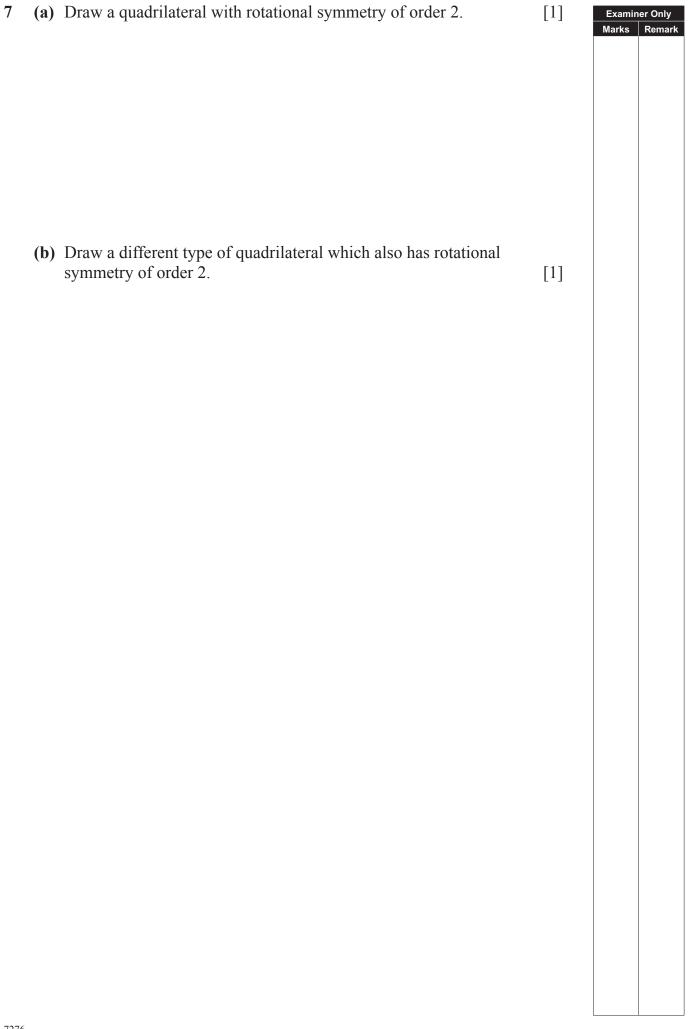




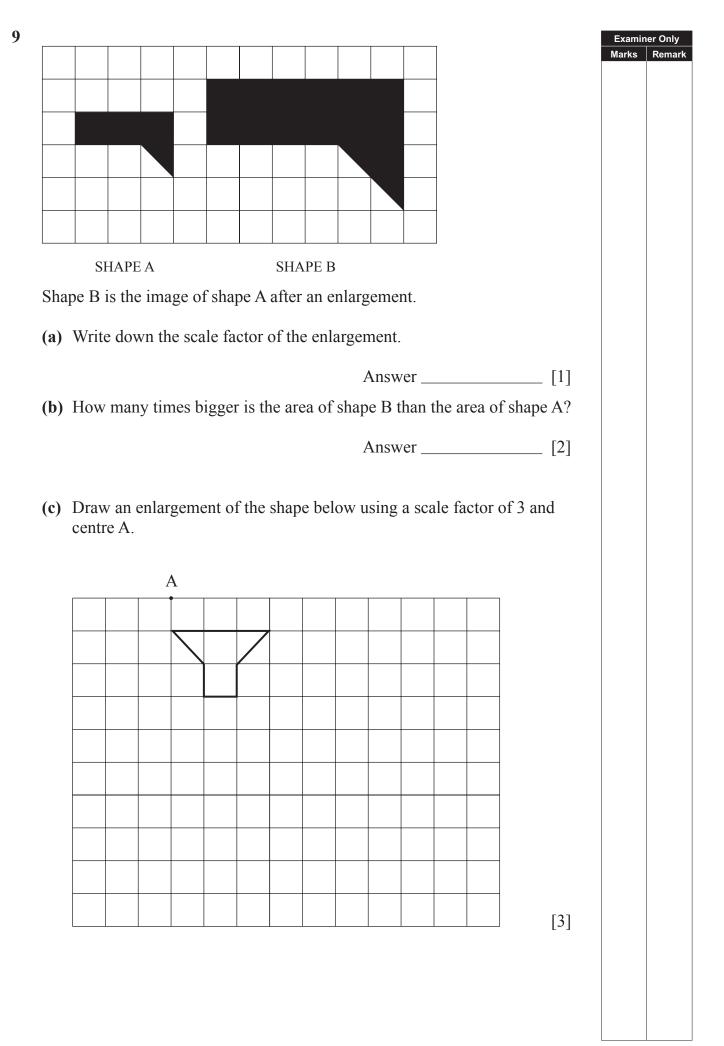
[Turn over

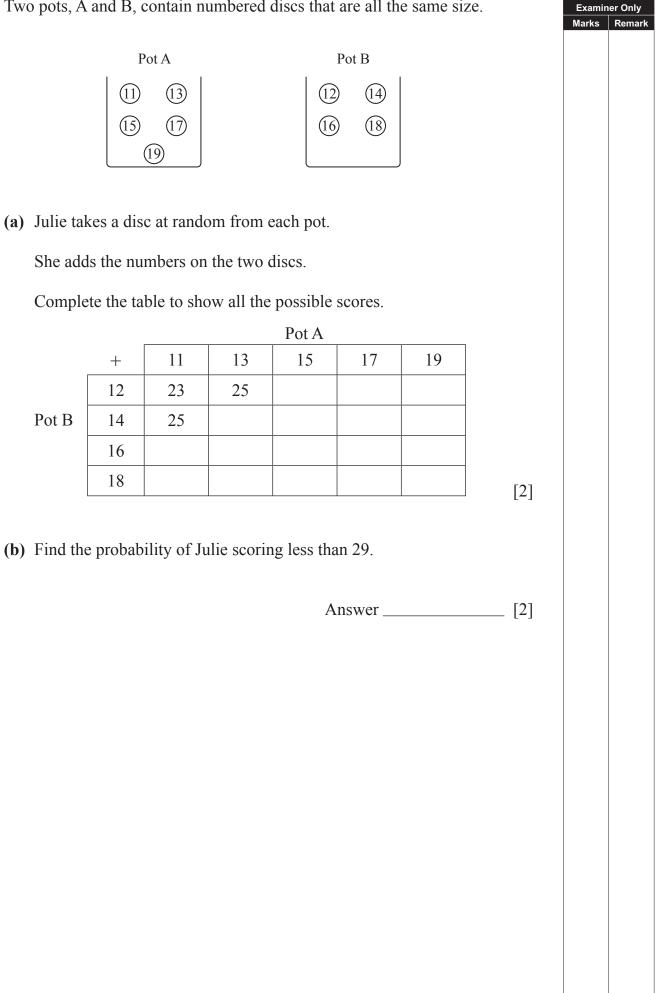
	He paid £120 deposit and £45 per month for 9 months.							
	How much did he pay in <b>total</b> for the	e television	?					
	Answer £ [3							
( <b>b</b> )	Please send me	Number	Price	Sub Tota	1			
	A105 Standard Rice Cooker		£24.99					
	A115 Large Rice Cooker		£31.99					
	A292 Best Rice Cookery Book		£5.49					
	A293 Extra Copy Cookery Book		£8.49					
		Courie	r delivery	5.75				
	Complete the mail order form for tw	-						
(c)	Complete the mail order form for tw Rice Cookery Book, including Cour Jenny works in her local shop.	-	ce Cookers		est [3]			
(c)	Rice Cookery Book, including Cour	ier delivery	ce Cookers					
(c)	Rice Cookery Book, including Cour Jenny works in her local shop.	ier delivery o Friday.	ce Cookers					
(c)	Rice Cookery Book, including Cour Jenny works in her local shop. She earns £6.50 per hour, Monday to	ier delivery Friday. kend work.	ce Cookers		[3]			
(c)	Rice Cookery Book, including Cour Jenny works in her local shop. She earns £6.50 per hour, Monday to She earns "time and a half" for weel In a particular week, Jenny worked 1	ier delivery Friday. kend work.	ce Cookers		[3]			
(c)	Rice Cookery Book, including Court Jenny works in her local shop. She earns £6.50 per hour, Monday to She earns "time and a half" for weel In a particular week, Jenny worked 1 to Friday. She also did 4 hours week	ier delivery Friday. kend work.	ce Cookers		[3]			
(c)	Rice Cookery Book, including Court Jenny works in her local shop. She earns £6.50 per hour, Monday to She earns "time and a half" for weel In a particular week, Jenny worked 1 to Friday. She also did 4 hours week	ier delivery Friday. kend work.	ce Cookers		[3]			

5	What is the order of rotational symmetry for each of these shapes?	Examiner Only Marks Remark
	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
	Order Order [3]	
6	In a raffle 300 tickets are sold.	
	There is only one prize.	
	Mr Bond buys 8 tickets, Mrs Bond buys 15 tickets and their children, Jack and Jill, buy 3 tickets each.	
	(a) What is the probability that Mrs Bond wins the prize?	
	Answer [2]	
	(b) What is the probability that none of the family wins the prize?	
	Answer [2]	
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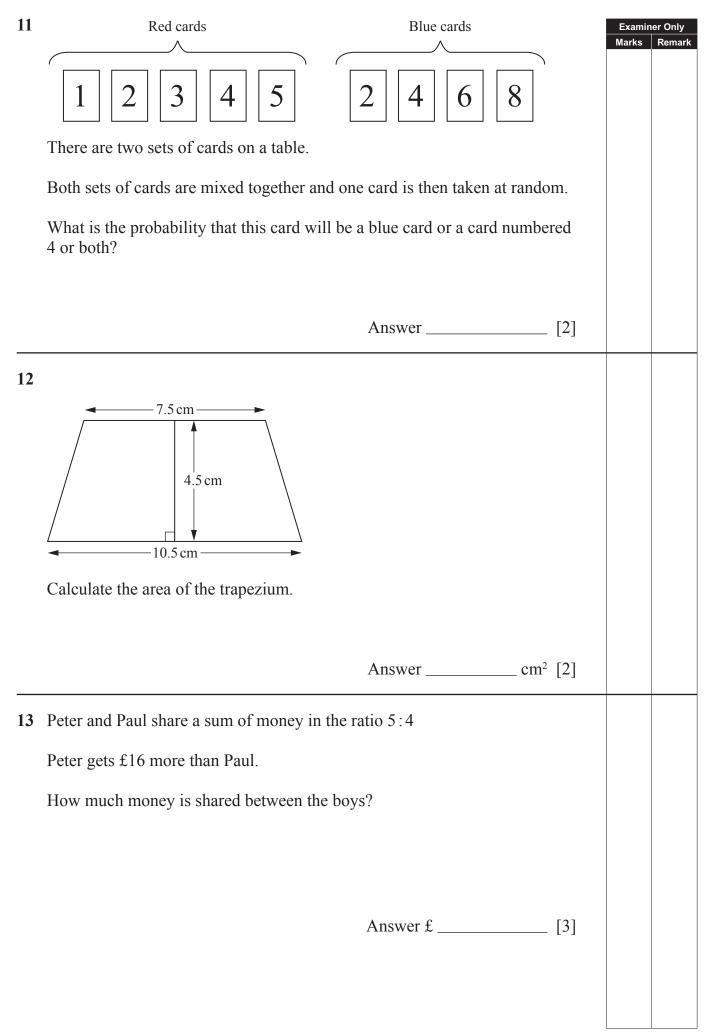


8	The	total cost of a car is given by the formula			Examine Marks	r Only Remark
		Total $cost = deposit + monthly pay$	yment $\times$ 12			
	<b>(a)</b>	Colin pays a deposit of £2500 and his mont	thly payment is £200.			
		Find the total cost of his car.				
		A	nswer £	[2]		
	(b)	Sylvia pays no deposit and her monthly pay	ment is £500.			
		What is the total cost of Sylvia's car?				
		A	nswer £	[1]		
	$(\cdot)$		4			
	(C)	In your own words, explain what the 12 in t Answer		Г1]		
				[1]		
	(d)	The total cost of Hugh's car is £8000 and h	is deposit is £2600.			
		Work out Hugh's monthly payment.				
		A	nswer £	[3]		
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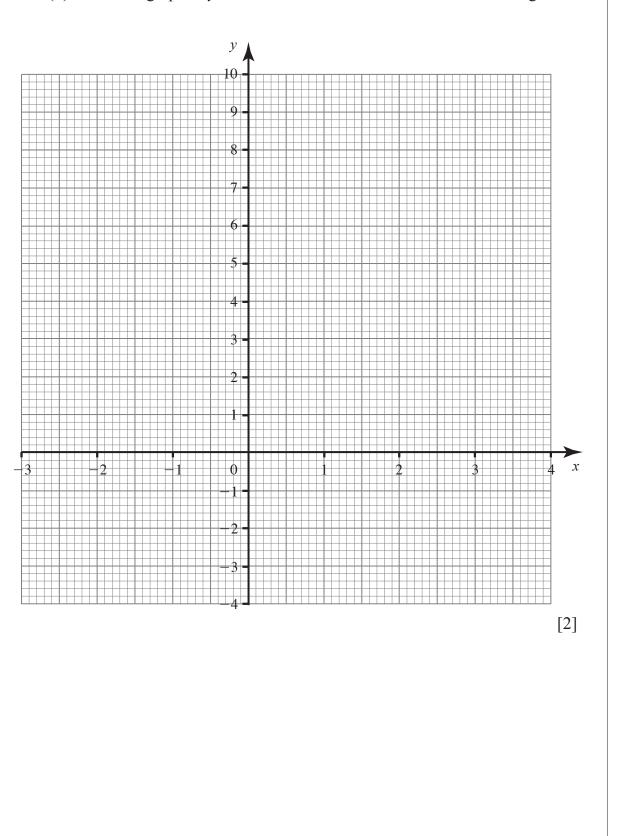


14 (a) Complete the table for  $y = 2x^2 - 2x - 3$ 

x	-2	-1	0	1	2	3	
У		1	-3	-3		9	[2]

Examiner Only Marks Remark

(b) Draw the graph of  $y = 2x^2 - 2x - 3$  for x = -2 to x = 3 on the grid.



## THIS IS THE END OF THE QUESTION PAPER

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