Centre No.						Pape	r Refe	rence				Surname	Initial(s)
Candidate No.			5	3	8	4	F	/	1	1	F	Signature	

Paper Reference(s)

5384F/11F

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 11 (Non-Calculator)

Foundation Tier

Unit 3

Monday 18 May 2009 – Afternoon

Time: 1 hour

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
Tracing paper may be used.

Items included with question papers

Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer ALL the questions. Write your answers in the spaces provided in this question paper.

You must NOT write on the formulae page.

Anything you write on the formulae page will gain NO credit.

If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 20 questions in this question paper. The total mark for this paper is 60.

There are 16 pages in this question paper. Any blank pages are indicated.

Calculators must not be used.

Advice to Candidates

Show all stages in any calculations.

Work steadily through the paper. Do not spend too long on one question.

If you cannot answer a question, leave it and attempt the next one.

Return at the end to those you have left out.

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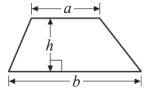
GCSE Mathematics

Formulae: Foundation Tier

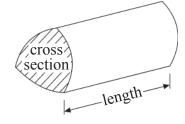
You must not write on this formulae page.

Anything you write on this formulae page will gain NO credit.

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



Volume of prism = area of cross section \times length



N 3 4 8 0 8 A 0 3 1 6

3

2.	(a)	Work out	400 – 193		Leave blank
				(2)	
	(b)	Work out	4 – 9		
				(1)	
	(c)	Work out	-3×5		
				(1)	
	(d)	Work out	300 ÷ 50		
				(1)	Q2
3.	(a)	Work out 50% of £0	60	(Total 5 marks)	
				£(1)	
	(b)	Work out 25% of 20	metres.		
				metres	
				(1) (Total 2 marks)	Q3
				(Iviai 2 iliai KS)	

4.	Here is a table The machine m	for a two-stage number a two-stage number and the	ber machine. en subtracts 3			Leave blank
	Complete the ta	able.				
		Input $\rightarrow \boxed{\times 2}$	2 → -3	→ Output		
		Input		Output		
		2		1		
		4		5		
		10				
				27		Q4
					(Total 3 marks)	
5.	Here are five si					
	A	В	C	D	E	
	Write down the	e letter of a shape tha	nt has			
	(i) no lines of	symmetry,				
	(ii) exactly on	e line of symmetry,				
	(iii) exactly tw	o lines of symmetry,				
	(1V) rotational s	symmetry of order tw	VO.			05
						Q5
					(Total 4 marks)	

6. The table shows temperatures at midnight and midday on one day in five cities.

City	Midnight temperature	Midday temperature
Belfast	−3 °C	4 °C
Cambridge	−1 °C	4 °C
Edinburgh	−7 °C	−1 °C
Leeds	−6 °C	3 °C
London	−2 °C	6 °C

(a)	Which	city had	the	lowest	midnioht	temperature?
(a	.)	VV IIICII	City mau	uic	IOWEST	mumgm	temperature:

(1)

(b) How many degrees higher was the midnight temperature in Cambridge than the midnight temperature in Leeds?

°C (1)

(c) Which city had the greatest rise in temperature from midnight to midday?

(1)

Q6

Leave blank

(Total 3 marks)

7. (a) Solve x + 4 = 10

x = (1)

(b) Solve 4y = 20

=(1)

(c) Solve 19 - m = 12

 $m = \dots Q7$

(Total 3 marks)

Leave blank **8.** The table shows part of a bus timetable from Shotton to Alton. 1000 **Shotton** 0730 08000900 1100 Crook 0745 08 15 0915 1015 11 15 Prudhoe 0758 0828 0928 1028 1128 Hexham 08 15 0845 0945 1045 1145 0830 09001000 1100 1200 Alton A bus leaves Shotton at 0730 (a) What time should it arrive at Alton? **(1)** Another bus leaves Prudhoe at 0828 (b) How many minutes should it take to get to Hexham? minutes **(1)** Serena lives in Crook. She has to be in Hexham by quarter past 11 (c) What is the time of the latest bus she can catch from Crook to arrive in Hexham by quarter past 11? **Q8 (1)** (Total 3 marks)

Leave blank 9. Diagram **NOT** accurately drawn C6.5 cm (a) Make an accurate drawing of triangle ABC. The side AB has already been drawn for you. A**(2)** (b) Measure the size of the angle at C in your triangle. **Q9 (1)** (Total 3 marks)

Leave blank **10.** 100 90 80 70 dollars 60 50 40 30 20 10 15 20 25 30 35 55 60 euros The conversion graph can be used to change between euros and dollars. (a) Use this graph to change 30 euros into dollars. .. dollars **(1)** (b) Use this graph to change 90 dollars into euros. **(1)** Bill changes 100 euros to dollars. (c) Change 100 euros to dollars. **(2)** Q10 (Total 4 marks)

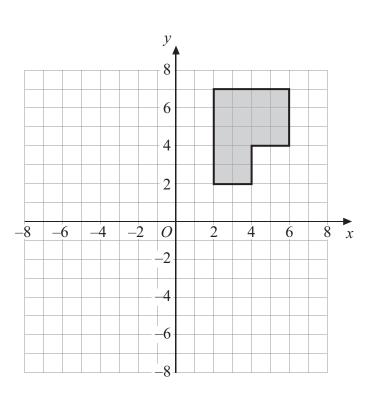
9

11. Work out $\frac{1}{8} + \frac{3}{4}$			Leave blank
		(Total 2 marks)	Q11
12.		Diagram NOT accurately drawn	
5 cm	D	12 cm	
	20 cm		
Rectangle D is an enlargement Find the scale factor of the			
			Q12
		(Total 2 marks)	

3. Work out	36 × 24							blan
								Q13
						(T	otal 3 ma	rks)
4. On the gr You shou	rid, show how	w this trapez	zium tess iums.	sellates.				
4. On the gr You shou	rid, show how at le	w this trapez	zium tess	sellates.				
4. On the gr You shou	rid, show how at le	w this trapez	zium tess	sellates.				
4. On the gr You shou	rid, show how ald draw at le	w this trapez	zium tess	sellates.				
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4. On the gr You shou	rid, show how at le	w this trapez	zium tess iums.	sellates.				
4. On the gr You shou	rid, show hoveld draw at le	w this trapez	zium tess iums.	sellates.				
4. On the gr You shou	rid, show how ldd draw at le	w this trapez	zium tess iums.	sellates.			otal 2 ma	Q14

15. Mary scored 14 out of 20 in a test.		Leave blank
Find 14 out of 20 as a percentage.		
	%	Q15
	(Total 2 marks)	
16.	Diagram NOT	
	accurately drawn	
120°	140°	
$\angle a$		
	58°	
Work out the size of the angle a .		
	0	Q16
	(Total 2 marks)	

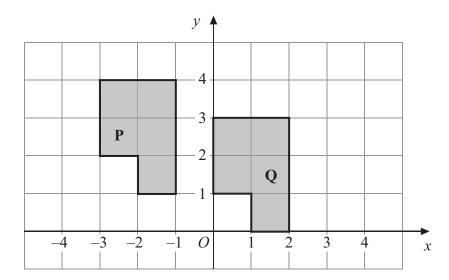
17.



(a) Rotate the shaded shape 90° clockwise about the point O.

(2)

Leave blank



(b) Describe fully the single transformation that will map shape ${\bf P}$ onto shape ${\bf Q}.$

(2)

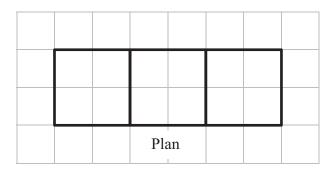
Q17

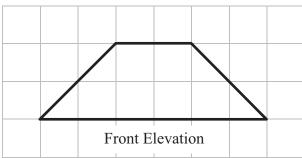
(Total 4 marks)

8. Here is a list of ingredi	ients for making 8 cheese scones.		b.
	Ingredients for 8 cheese scones		
	200 g self-raising flour		
	60 g butter		
	30 g cheese		
	150 ml milk		
Work out the amount of	of each ingredient needed to make 12	cheese scones.	
g self-rais	ing flour		
g butter			
g cheese			
m <i>l</i> milk			Q
		(Total 3 marks)	
		(Total C maring)	
			- 1

Leave blank

19. Here are the plan and front elevation of a solid shape.





(a) On the grid below, draw the side elevation of the solid shape.



(2)

(b) In the space below, draw a sketch of the solid shape.

(2) Q19

(Total 4 marks)

20.

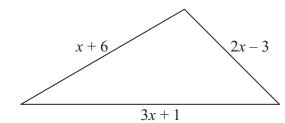


Diagram **NOT** accurately drawn

Leave blank

In the diagram, all measurements are in centimetres.

The lengths of the sides of the triangle are

$$x+6$$

$$2x-3$$

$$3x+1$$

(a) Find an expression, in terms of x, for the perimeter of the triangle.

Give your expression in its simplest form.

(2)

The perimeter of the triangle is 37 cm.

(b) Find the value of x.

x = (2)

 $) \qquad \boxed{\mathbf{Q20}}$

(Total 4 marks)

TOTAL FOR PAPER: 60 MARKS

END