Write your name here				
Surname	Otl	her names		
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Unit 2: Number, Alg (Non-Calcul Tuesday 1 March 2011 – A	gebra, Geome ator) fternoon	Foundation Tier Paper Reference		

Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided there may be more space than you need.
- Calculators must not be used.

Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets – use this as a guide as to how much time to spend on each question.
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
 - you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.





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GCSE Mathematics 2MB01

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 × length



Answer ALL questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1 (a) On the grid, draw a kite.

 Image: Sector of the sector

(1)

(b) Here is a quadrilateral.



Write down the special name of this quadrilateral.

(1)

(Total for Question 1 is 2 marks)



3



4	(i) What type of angle is this?
	(ii) Measure the size of the angle.
	0
	(Total for Question 4 is 2 marks)
5	
	Diagram NOT accurately drawn
	50° x°
	(i) Work out the value of <i>x</i> .
	<i>x</i> =
	(ii) Give a reason for your answer.
	(Total for Question 5 is 2 marks)
	5



***8** Yusuf is planning a disco party at his Youth Club. Here are his costs.

Mobile Disco	£230
Hire of room	£150
Other costs	£30
Food	£12 per person

Yusuf charges £16 per ticket. He sells 100 tickets.

Is there enough money from the ticket sales for Yusuf to pay all his costs? You must show your working.

(Total for Question 8 is 4 marks)



9	The table shows Oslo on the same		perature and	d the lowe	est temper	ature in London	and in
	Osio on the sam	e day.		Highest	Lowest		
			London	8°C	-7°C		
			Oslo	-4°C	-9°C		
	(a) Work out the and the lowe	difference betw st temperature ir		vest tempe	erature in	London	
							°C (1)
	(b) Work out the and the lowe	difference betw st temperature ir		;hest temp	erature in	London	
							°C
							(1)
		1 1			(Tota	l for Question 9	is 2 marks)
10	(a) Work out	$\frac{1}{2} \times \frac{1}{5}$					
							(1)
	(b) Work out	$\frac{1}{2} + \frac{3}{8}$					(1)
	Give your an	swer in its simpl	lest form.				
							(2)
					(Total	for Question 10	is 3 marks)
	8						







Barbara bought some things in London. She saw the same things on sale in Prague.

The table shows the cost in \pounds (pounds) and the cost in KC (Koruna).

	Cost in London	Cost in Prague KC (Koruna)	
Item	£ (pounds)		
Headphones	£15	450 KC	
Suitcase	£34	750 KC	
Music player	£26	810 KC	



Barbara thinks the total cost of these things was more in London than in Prague.

Is she correct? Give a reason for your answer. You must show all your working.

(Total for Question 12 is 5 marks)



***13** Comp Parts and Z Parts both sell memory sticks.



There are 150 students in Year 10 in a school. A teacher needs to buy a memory stick for each student.

At which of the shops should he buy the memory sticks? You must show all your working.

(Total for Question 13 is 5 marks)





15 Work out 342×24

P 3 8 9 7 6 A 0 1 4 2 0

(Total for Question 15 is 3 marks)

16 Here are the first four terms of an arithmetic sequence		
5 9 13 17		
(a) What is the next term of this sequence?		
(a) what is the next term of this sequence:		
		(1)
(b) Write down an expression, in terms of <i>n</i> , for the <i>n</i> t	h term of the sequence	(1)
(b) while down an expression, in terms of <i>n</i> , for the <i>n</i> t	in term of the sequence.	
		(2)
	(Total for Question 16	is 3 marks)
17 Ali, Ben and Candice share £300 in the ratio 2:3:5		
How much money does Candice get?		
		£
	(Total for Question 17	is 2 marks)

P 3 8 9 7 6 A 0 1 5 2 0

18 Veena bought some food for a barbecue.She is going to make some hot dogs.She needs a bread roll and a sausage for each hot dog.

There are 40 bread rolls in a pack. There are 24 sausages in a pack.

Veena bought exactly the same number of bread rolls and sausages.

(i) How many packs of bread rolls and packs of sausages did she buy?

..... packs of bread rolls

..... packs of sausages.

(ii) How many hot dogs can she make?

..... hot dogs

(Total for Question 18 is 5 marks)

P 3 8 9 7 6 A 0 1 6 2 0



P 3 8 9 7 6 A 0 1 8 2 0

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P 3 8 9 7 6 A 0 1 9 2 0

19

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P 3 8 9 7 6 A 0 2 0 2 0

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