Write your name here					
Surname		Other names			
Edexcel GCSE Centre Number Candidate Number					
Mathematics B Unit 2: Number, Algebra, Geometry 1 (Non-Calculator)					
Unit 2: Number, Alg	gebra, Geon	netry 1			
Unit 2: Number, Alg	gebra, Geon	netry 1 Foundation Tier			
Unit 2: Number, Alg	gebra, Geon ator)	Foundation Tier Paper Reference			
Unit 2: Number, Alg (Non-Calcul	gebra, Geon ator)	Foundation Tier			
Unit 2: Number, Alg (Non-Calcul Monday 14 November 20	gebra, Geon ator)	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.

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.







Turn over 🕨





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	This quadrilateral has all 4 sides the same length.	
	(a) Write down the special name of this quadrilateral.	
	(1)
	(b) On the shape, draw all the lines of symmetry.	1)
	(Total for Question 1 is 2 mark	as)
		3
		Turn over

2	(a) Write the number	er ten thousand	five hundred	and seventy in figures.	
	(b) Work out 56 000) ÷ 100			(1)
	(c) Write these num Start with the sn	ibers in order of nallest number.	size.		(1)
	3.95	2.17	5.03	6.84	
					(1)
	(d) Write down the	value of			
	(i) the square of	of 7			
	(ii) 2 ³				
	(11) 2				
					(2)
				(Total for Ques	tion 2 is 5 marks)
				(Total for Ques	uon 2 15 5 marksj
	4				



4 Priya and Amit are going on holiday with their 3 children.

The table gives information about the cost of travel and the cost of the hotel.

Travel	Each adult	£60
	Each child	£50
Hotel	Room for 2 adults	£45 per night
	Room for 3 children	£55 per night

Priya and Amit have saved £1500 for their holiday. They will be away for 7 nights.

Work out how much of the £1500 they will have left to spend on their holiday.

£

(Total for Question 4 is 4 marks)



5

Day	Weather	maximum day temperature (°C)	minimum night temperature (°C)
Sunday	Sunny	9°C	-15°C
Monday	Sunny Intervals	6°C	1°C
Tuesday	Grey Cloud	-1°C	-3°C
Wednesday	Sunny Intervals	0°C	- 2°C
Thursday	Sunny Intervals	5°C	2°C

(ii) What is this difference in temperature?

(2)





7

°C

6 A parcel is being weighed.



(a) Write down the weight of the parcel.

The table shows information about the cost of posting parcels.

maximum weight	2 kg	4 kg	6 kg	8 kg	10 kg	20 kg
cost	£4.41	£7.06	£9.58	£11.74	£12.61	£14.69

(b) Write down the cost of posting the parcel.

(1)

..... kg

(1)

(Total for Question 6 is 2 marks)





\int		
9	There are 240 students at Walbridge school. 15% of these students are left-handed.	
	(a) Work out how many students are left-handed.	
		(2)
	$\frac{1}{3}$ of the 240 students are female.	(2)
	(b) How many of the students are female?	
		(1)
	80 of the students walk to school. 60 of the students cycle to school.	
	(c) Write the ratio of the number of students who walk to school to the number of students who cycle to school.	r
	Give your ratio in its simplest form.	
		(2)
	(Total for Question	
[-	(Total for Question	> 15 5 mai K8j





13 (a) Work out	$20 - 12 \div 4$	
		(1)
(b) Put brackets	in to make this a true statement.	
	$5 + 3 \times 2 - 1 = 15$	
(c) Work out	-8×-3	(1)
(d) Work out	$\frac{7}{1}$ + $\frac{1}{1}$	(1)
	$\overline{10}$ $\overline{5}$	
		(2)
	(Total for Question	13 is 5 marks)
		13
	$\begin{array}{ $	Turn over

*14 This formula is used to work out the body mass index, B, for a person of mass M kg and height H metres.

$$B = \frac{M}{H^2}$$

A person with a body mass index between 25 and 30 is overweight.

Arthur has a mass of 96 kg. He has a height of 2 metres.

Is Arthur overweight? You must show all your working.

(Total for Question 14 is 3 marks)





16 Jake makes a picture frame from 4 identical pieces of card. Each piece of card is in the shape of a trapezium.



Diagram **NOT** accurately drawn

The outer edge of the frame is a square of side 12 cm. The inner edge of the frame is a square of side 8 cm.

Work out the area of each piece of card.

(Total for Question 16 is 4 marks)





ABC is an isosceles triangle. AB = BC. Angle $ABC = 110^{\circ}$.

ACDE is a quadrilateral. Angle $CDE = 100^{\circ}$. Angle ACD is a right-angle.

AE is parallel to BC.

Work out the size of the angle marked *x*. Give reasons for each stage of your working.

(Total for Question 17 is 4 marks)

TOTAL FOR PAPER IS 60 MARKS



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