Write your name here					
Surname	Other n	ames			
Pearson	Centre Number	Candidate Number			
Edexcel GCSE					
Mathematics B					
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Unit 2: Number, Al (Non-Calcu	lgebra, Geometr Ilator) – Morning	oundation Tier			

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 🕨



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



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Volume of prism = area of cross section × length





	3 7 11 15
	(a) Write down the next number in this sequence.
	(1) (b) Find the 8th term of this sequence.
	(c) The number 80 is not a term of this sequence. Explain why.
-	
	(1)
	(Total for Question 2 is 3 marks)
	At 7 am the temperature was -4 °C. By 3 pm the temperature had gone up by 10 °C.
	(a) Write down the temperature at 3 pm.
	°C
	(1)
	At 9 pm the temperature was -2 °C. By midnight the temperature had gone down by 7 °C.
	(b) Write down the temperature at midnight.
	°C
	(1)
_	(Total for Question 3 is 2 marks)

4 The table shows the cost of a single train ticket and the cost of a return train ticket.

	Single ticket	Return ticket		
Cost	£13.60	£20.30		

(a) Work out the difference between the cost of two single tickets and the cost of one return ticket.

	£	
		(3)
	Tim catches a train to Bournemouth at 8 57 am. The train gets to Bournemouth at 9 23 am.	
	(b) Work out how long the train takes to get to Bournemouth.	
	(b) Work out now rong the train taxes to get to Dournemouth.	
		minutes
		(1)
	Tim catches the 1723 train home.	
	(c) Write 1723 using the 12-hour clock.	
	(c) while 1725 using the 12 hour clock.	
		(1)
	(Total for Question 4 is 5 r	narks)
		nui 1(5)
5	Lily has 3.4 kg of flour. She uses 500 grams of the flour.	
	How much flour does Lily have left?	
	(Total for Question 5 is 2 r	narks)



5



Here are four digits. 7 6 3 5 9 (a) Write down the largest three-digit number you can make using three of these digits. You may only use a digit once. (1) Here are the four digits again. 6 3 5 9 (b) Write down the three-digit number, whose value is closest to 600, that you can make using three of these digits. You may only use a digit once. (1)(Total for Question 7 is 2 marks) *8 A company has a Norwich office and an Ipswich office. 30 people work in the Norwich office and 20 people work in the Ipswich office. On Tuesday 12 people from the Norwich office go to work in the Ipswich office and 5 people from the Ipswich office go to work in the Norwich office. Work out how many people should be working in the Norwich office and how many people should be working in the Ipswich office on Tuesday. (Total for Question 8 is 3 marks)

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P 4 8 2 1 4 A 0 8 1

10 Here are five shapes on a grid of squares.





11 An equilateral triangle has sides of length 8 cm. A square has the same perimeter as the triangle.

Work out the area of the square.

(Total for Question 11 is 5 marks)

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*12

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ABC and ABD are both isosceles triangles. AB = ACDA = DB

Work out the size of angle *y*. You must give reasons for your answer.

(Total for Question 12 is 4 marks)





The travel graph shows Jane's journey from home to college.



14 Miss Paisley is organising games for the children in her class. She is going to put the children into teams.

If she puts the children into teams of 4, there will be 2 children left out. If she puts the children into teams of 5, there will be 3 children left out.

Work out the smallest possible number of children in Miss Paisley's class.

(Total for Question 14 is 3 marks)



13

*15	Tina is	going	from	London	to	the	French	town	of Lille.
-----	---------	-------	------	--------	----	-----	--------	------	-----------

Tina will drive from London to Dover. She will go on the ferry from Dover to Calais. She will then drive from Calais to Lille.

The distance from London to Dover is 80 miles. The distance from Calais to Lille is 120 km.

5 miles = 8 km

Tina has enough fuel in her car to drive 150 miles.

Does she have enough fuel to get from London to Lille? You must show all your working.



16 (a) Expand and simplify 7a + 4(a - 2b)

(b) Simplify $n^6 \times n^5$

(c) Factorise 5x + 10

(2)

(1)

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(1)

(Total for Question 16 is 4 marks)



17 A supermarket car park has 200 spaces.10% of the spaces are for staff.

The other spaces are for disabled people, for parents and for other customers in the ratio 1:2:7

Paul is going to paint a sign for each of the spaces for staff, for disabled people and for parents.

He is **not** going to paint signs for the spaces for other customers.

Work out the total number of spaces Paul is going to paint a sign for.

(Total for Question 17 is 4 marks)



