Write your name here		
Surname	Othe	er names
Pearson Edexcel GCSE	Centre Number	Candidate Number
Mathema	tice <b>R</b>	)
Unit 2: Number, A	lgebra, Geome	try 1
	lgebra, Geome	try 1 Foundation Tier
Unit 2: Number, A	lgebra, Geome llator)	Foundation Tier Paper Reference
Unit 2: Number, A (Non-Calcu	<b>Igebra, Geome</b> Ilator) Morning	Foundation 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 🕨



# DO NOT WRITE IN THIS AREA

## DO NOT WRITE IN THIS AREA

## **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  $\times$  length



		Answ	er ALL ques	stions.		
	Writ	e your answ	vers in the s	paces provi	ided.	
	You mu	ıst write do	wn all stage	es in your w	orking.	
		You must	NOT use a	calculator.		
<b>1</b> (a) Write the nu	mber six thous	sand and th	irty seven in	n figures.		
(b) Write the nu	mber 8377 cor	rect to the n	earest ten.			(1)
						(1)
(c) Write these r Start with th	numbers in ord e smallest num					
	43	37	19	26	21	
						(1)
				(Total fo	r Question 1	is 3 marks)

P 4 6 5 5 3 A 0 3 2 0

2	(a)	Write down	the name of	f a quadr	ilateral that	has 4 right	t angles.
---	-----	------------	-------------	-----------	---------------	-------------	-----------

The diagram shows a solid shape.



(b) Write down the mathematical name of this shape.

(c) In the space below, draw accurately a circle of radius 4 cm. Use the cross (×) as the centre of your circle.



(1)

## (Total for Question 2 is 3 marks)

(1)

(1)



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3

Edinburgh –6°C• Manchester -1 °C •Leeds -3 °C Birmingham 0°C• London 3°C Plymouth 0°C The diagram shows the temperatures in 6 cities at midnight one day. (a) Which city had the highest temperature? (1) (b) Work out the difference in temperature between (i) Manchester and Edinburgh, °C (ii) London and Leeds. °C (2) (Total for Question 3 is 3 marks) 5







\*5 A second class stamp costs 53 pence.

Hazel wants to buy 10 second class stamps. She has  $\pounds 5$  to spend on stamps.

Does Hazel have enough money to buy the stamps?

(Total for Question 5 is 2 marks)



7



	6

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7

## \*(b) Here are two fractions $\frac{2}{3}$ and $\frac{5}{7}$

(a) What fraction of this shape is shaded?

Which is the larger fraction? Explain your answer.

You may use the grids below to help explain your answer.

(Total for Question 7 is 4 marks)

(1)

(3)



9



The points A, B, C, D, E and F are shown on the grid.

One of these points has coordinates (4, 1).

(a) Which point?

- (b) (i) On the grid, mark with a cross ( $\times$ ) a point *P* such that the shape *ABCP* is a kite. Label your point P.
  - (ii) Write down the coordinates of your point *P*.

(2)

(1)

(Total for Question 9 is 3 marks)



**10** There are 210 counters in a bag.

30% of these counters are red.

Work out the number of red counters in the bag.

## (Total for Question 10 is 2 marks)



11 You can use this conversion graph to change between kilograms and pounds.



6 5 5 3 A 0 1 3 2

P 4

13

Turn over 🕨

**\*12** The diagram shows the floor plan of a room.



Shamus is going to put a border all around the room.

Borders are sold in rolls.

The table gives some information about three types of border.

Туре	Length of roll (in metres)	Cost
Plain	3	£20
Patterned	2	£11
Textured	2.4	£14.50

Shamus is going to use only one type of border.

He has a budget of £150

Which of these types of border can Shamus afford to buy?

Diagram **NOT** accurately drawn





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(Total for Question 12 is 5 marks)

(b) Write 5.69 correct to one significant figure.	(1)
	(1)
(Total for	Question 13 is 2 marks)
(a) Simplify $7a - 3a$	
(b) Simplify $2 \times 3m$	(1)
(c) Simplify $x^2 + x^2 + x^2$	(1)
(d) Simplify $3cd + 4cd$	(1)
	(1)
(Total for	Question 14 is 4 marks)

P 4 6 5 5 3 A 0 1 6 2 0



Chao transports microwave ovens from China to the UK.

He puts each microwave oven in a box. Each box is a cube of side 50 cm.

He then puts each box in a container. Each container is a cuboid of size 5m by 2.5m by 2m.

Chao has 500 boxes. He has 3 containers.

Will the 500 boxes fit into these 3 containers?

(Total for Question 15 is 4 marks)





17 Shelley sells books.

On Saturday she is going to give a free book mark and a free dust cover with each book she sells.

All the books are the same size.

Shelley needs to buy the book marks and the dust covers.

Book marks come in boxes. Each box contains 24 book marks.

Dust covers come in packs. Each pack contains 36 dust covers.

Shelley wants to have enough book marks and dust covers for 250 books.

She buys exactly the same number of book marks and dust covers.

Work out the number of boxes of book marks and the number of packs of dust covers she buys.

You must show all your working.

boxes of book marks

packs of dust covers

(Total for Question 17 is 4 marks)





P 4 6 5 5 3 A 0 2 0 2 0