Surname	Other	names								
Edexcel GCSE	Centre Number	Candidate Number								
Mathematics B Unit 2: Number, Algebra, Geometry 1 (Non-Calculator) Foundation Tier										
	rning	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.
- 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 ▶



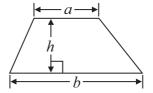


GCSE Mathematics 2MB01

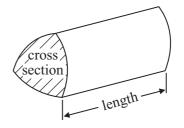
Formulae: Foundation Tier

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 \times length



Answer ALL questions.

Write your answers in the spaces provided.

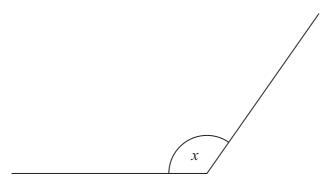
You must write down all stages in your working.

You must NOT use a calculator.

1	(a)	Wr	ite t	he n	umb	er 34	60 i	n wo	rds.										
	(b)	Wr	ite t	he n	umb	er 25	8 cc	rrect	to t	he ne	eare	st hur	ndre	d.	•••••		 	 (1)	
	(c)					nbers malle				ize.								 (1)	
								6.37		6.5		6.48		6.04		6.59			
																		(1)	

(Total for Question 1 is 3 marks)

2



(a) Write down the special name for the angle marked x.

(1)

(b) Measure the size of the angle marked x.

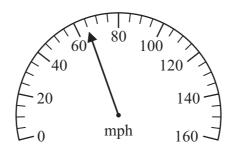
0

(1)

(Total for Question 2 is 2 marks)



3

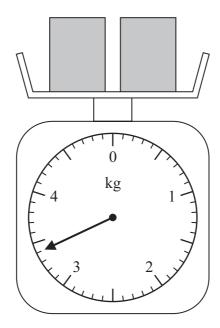


The diagram shows the speed of a car.

(a) Write down the speed.

(1)	mph
(1)	

The diagram shows two boxes on some scales.



Each box has the same weight.

(b) Work out the weight of each box.

(2) kg

(Total for Question 3 is 3 marks)



4 The table shows the minimum temperature on each of six days in January.

	Mon	Tues	Wed	Thurs	Fri	Sat
Minimum temperature	5°C	−1 °C	−2°C	−3°C	−3°C	-4°C

(a) Write down the lowest temperature.

°C (1)

(b) Work out the difference between the temperature on Tuesday and the temperature on Saturday.

.....°C

On Sunday, the temperature was 8°C higher than the temperature on Saturday.

(c) Work out the temperature on Sunday.

(1) °C

(Total for Question 4 is 3 marks)

5 (a) Simplify y + y + y + y

(1)

(b) Simplify $c \times d \times 5$

(1)

(c) Simplify 2a + 4b + 3a - b

(2)

(Total for Question 5 is 4 marks)

6	(a) Write down the value of $\sqrt{4}$	9
O	(a) Write down the value of $\sqrt{4}$	9

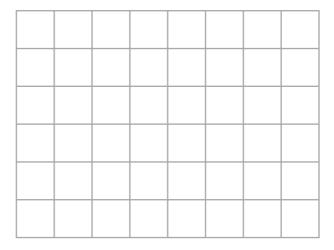
(1)	

(b) Write down the cube of 3



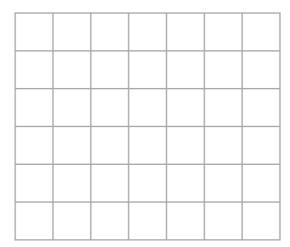
(Total for Question 6 is 2 marks)

7 (a) On the grid of centimetre squares, draw an isosceles triangle.



(1)

(b) On the grid of centimetre squares, draw a rectangle with a perimeter of 10 cm.



(2)

(Total for Question 7 is 3 marks)

8 The table gives information about the cost of cinema tickets.

Cinema tickets	Before 5pm	5pm and after
adult ticket	£6.35	£7.55
child ticket (ages 2 – 12)	£4.75	£5.65
teen ticket (ages 13 – 18)	£5.05	£6.05
family ticket (for 4 people)	£19.00	£22.60

Mr and Mrs White have 2 children.

One child is aged 10

The other child is aged 14

Mr and Mrs White and their 2 children go to the cinema after 5pm.

It is cheaper for Mr and Mrs White to buy 1 family ticket than to buy 4 separate tickets.

How much cheaper?

£																					
٠																					

(Total for Question 8 is 4 marks)

1	(a) Write 0.7 as a	fraction.					
							(1)
	(b) Write 0.3 as a j	percentage.					
							(1)
	(c) Write $\frac{8}{12}$ in its	s simplest form.					
	12						
							(1)
				C	Fotal for	Ouestion 9	9 is 3 marks)
_					10141 101	Question	7 is 3 marks)
0	Here is part of a tra	ain timetable from Sta	amford to	Stansted A	Airport.		
		Stamford	08 59	09 59	1059	11 59	
		Peterborough	09 18	10 18	11 18	12 18	
		Ely	09 53	1053	11 53	1253	
		Cambridge	1008	11 08	1208	13 08	
		Stansted Airport	1045	11 45	1245	13 45	
	A train leaves Stan	nford at 0859					
	(a) At what time s	hould this train get to	Cambridg	ge?			
							(1)
	David gets to Ely s He wants to catch	station at 1025 a train to Cambridge.					
	(b) How many min	nutes should David ha	ive to wait	?			
							(1)
	_	to Stansted Airport bo ch a train from Peterb)			
	(c) Write down the	e time of the latest tra	in Janet ca	in catch fi	rom Peter	borough.	
							(1)
				(170	4.16.5		
_				(10	otai ior (zuestion 10	0 is 3 marks)



11 The diagram shows a solid cuboid.

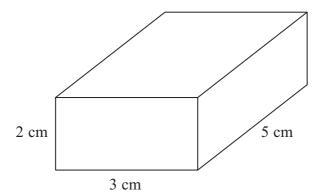
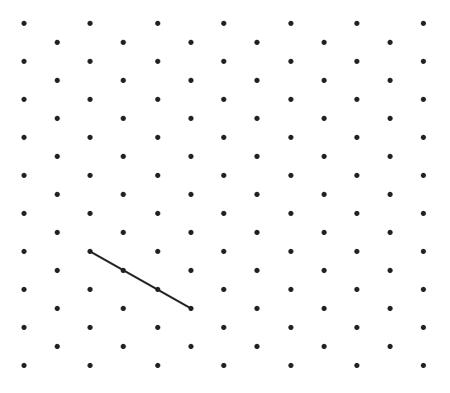


Diagram **NOT** accurately drawn

(a) Write down the number of faces the cuboid has.

(1)

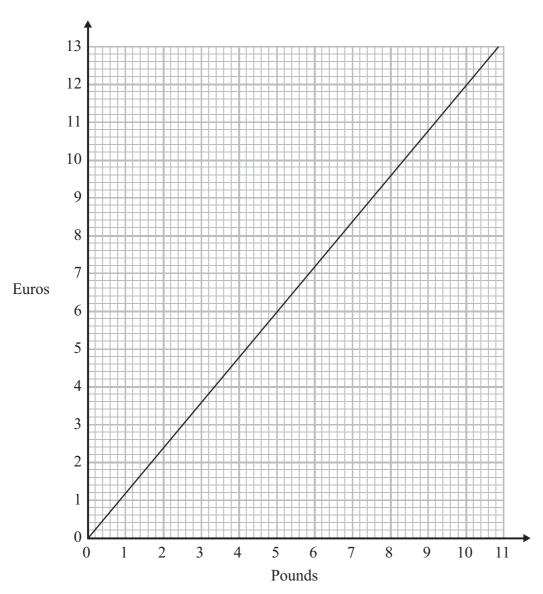
(b) On the centimetre isometric grid, make an accurate drawing of this cuboid. One edge has been drawn for you.



(2)

(Total for Question 11 is 3 marks)

12 You can use this graph to change between pounds and euros.



(a) Change 6 euros into pounds.

.....pounds (1)

Amy changes 50 pounds into euros.

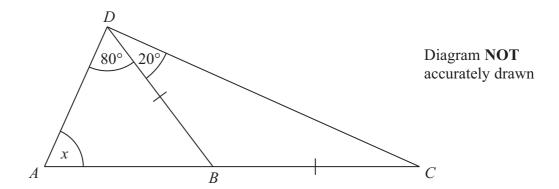
(b) How many euros should she get?

..... euros (2)

(Total for Question 12 is 3 marks)

(Total for Question 13 is 4 marks)

*14



ABC is a straight line.

$$BD = BC$$

Angle
$$ADB = 80^{\circ}$$

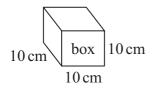
Angle
$$BDC = 20^{\circ}$$

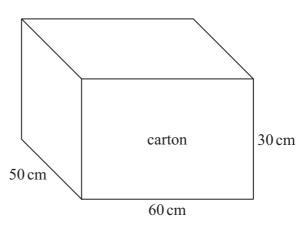
Work out the size of the angle marked x.

Give reasons for your answer.

(Total for Question 14 is 4 marks)

15





Diagrams **NOT** accurately drawn

Terry fills a carton with boxes. Each box is a cube of side 10 cm.

The carton is a cuboid with

length 60 cm width 50 cm height 30 cm

Work out the number of boxes Terry needs to fill one carton completely.

(Total for Question 15 is 3 marks)

16 (a) Expand 5(m+2)(b) Factorise $y^2 + 3y$ (c) Simplify $a^5 \times a^4$

(Total for Question 16 is 3 marks)

17 Here are the ingredients needed to make 16 chocolate biscuits.

Chocolate biscuits

Makes 16 chocolate biscuits

100 g of butter

50 g of caster sugar

120 g of flour

15 g of cocoa

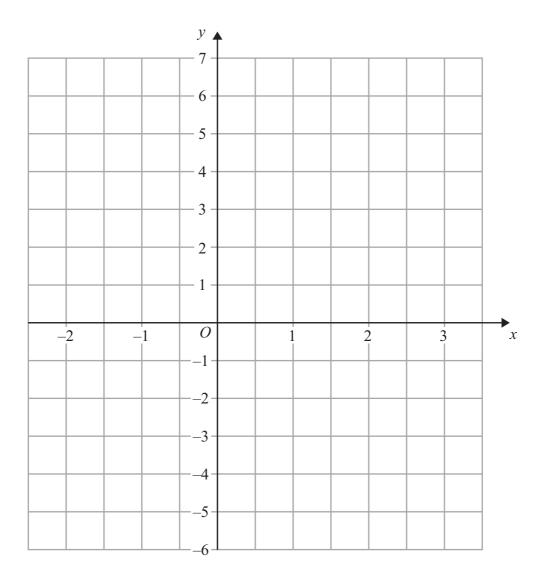
Sabrina has 250 g of butter
300 g of caster sugar
600 g of flour
and 60 g of cocoa

Work out the greatest number of chocolate biscuits Sabrina can make. You must show your working.

(Total for Question 17 is 3 marks)



18 On the grid, draw the graph of y = 2x - 1 for values of x from -2 to 3



(Total for Question 18 is 3 marks)

*19 The diagram shows the floor plan of Jill's dining room.

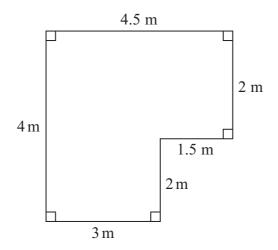


Diagram **NOT** accurately drawn

Jill is going to cover the floor with wooden floorboards.

The floorboards are sold in packs. One pack of floorboards will cover 2.25 m².

Work out how many packs Jill needs. You must show all your working.

(Total for Question 19 is 4 marks)

TOTAL FOR PAPER IS 60 MARKS





