# SubentBounty.com 1MA0/2F**Edexcel GCSE** Mathematics (Linear) – 1MA0 Practice Paper 2F (Calculator) Set A



# **Foundation Tier**

Time: 1 hour 45 minutes

Materials required for examination Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. Tracing paper may be used.

Items included with question papers Nil

#### 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 may be used.

#### Information

The total mark for this paper is 100.

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 1MA0**

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 = (a + b)h



**Volume of prism** = area of cross section × length



#### **Answer ALL TWENTY FIVE questions**

#### Write your answers in the spaces provided.

### You must write down all the stages in your working.

# **1.** Here is a pictogram.

It shows the number of books read by Asad, by Betty, and by Chris.



- (a) Write down the number of books read by
  - (i) Chris,

(ii) Betty.

.....

(2)

Diana read 6 books. Erikas read 9 books.

(b) Show this information on the pictogram.

(2)

(Total 4 marks)

# 2. This is part of a ruler.

(a) Write down the length marked with an arrow.



This is a thermometer.

(b) Write down the temperature shown.



This is a parcel on some scales.

(c) Write down the weight of the parcel.



..... kg (1) (Total 3 marks)

Write £1326 in words.												
												(1
On anot	her ch	eque, Ja	ayne v	writes a	n amou	nt in wo	ords as					
		FI	VE H	UNDR	RED AN	D FOU	J <b>R PO</b> U	J <b>NDS</b> A	AND 47	'p		
Write <b>F</b>	IVE H	IUNDR	RED A	AND F	OUR P	OUND	S AND	<b>47p</b> in :	figures.			
										£		(1
Jayne is	paid £	E2639 e	each m	onth.								
Write £2	2639 to	o the ne	earest	hundre	d pound	ls.						
										£		
											(Total 3	(1 8 marks
Here are	e 12 tes	st score	es of J	essica.								
8	9	8	7	9	6	5	5	8	7	5	8	
Write de	own th	e mode	e.									
												(1
(b) Find	l the m	edian.										
												(2
(c) Find	l the ra	nge.										
											(Total 5	(2 S marks

5. The table shows the distances, in miles, between 4 cities.

London	_		
74	Portsmouth		
39	58	Reading	
97	41	57	Salisbury

(a) Write down the distance between London and Salisbury.

miles (1)
(b) Which two cities are the shortest distance apart?
and
(1)
Nassim drives from Portsmouth to Salisbury. He then drives from Salisbury to Reading. Finally he drives from Reading to Portsmouth.
(c) Work out the total distance Nassim drives.

miles	
(3)	
(Total 5 marks)	

# **6.** Here are 8 shapes.

	А		В			С		
	D		E				F	
G					Н			

(a) Write down the letters of two different pairs of congruent shapes.

..... and .....

The diagram shows an open box in the shape of a cube.



(b) Write down the letters of the two shapes which could not form a net of this open box.

(2) (Total 4 marks) 7. (a) Complete this table.

Write a sensible unit for each measurement.

	Metric	Imperial
The weight of a turkey		pounds
The volume of water in a swimming pool		gallons
The width of this page	centimetres	

(3)

(b) Change 4 centimetres to millimetres

•	•••	•••••	 	mm
				(1)

(c) Change 1.5 kilograms to grams

g (1)
(Total 5 marks)

8. Daniel spins a fair 5-sided spinner. She then throws a fair coin.





Find all the possible outcomes he could get.

(Total 2 marks)

**9.** The bar chart shows information about the amount of time, in minutes, that Andrew and Karen spent watching television on four days last week.



Karen spent more time watching television than Andrew on two of these four days.

(a) Write down these two days.

.....

and .....(2)

(b) Work out the total amount of time Andrew spent watching television on these four days.

 minutes
(2)

(Total 4 marks)

10

..... Diagram **NO**T accurately drawn 230120° ..... Diagram **NOT** accurately drawn x° 50° (b) (i) Work out the size of the angle marked  $x^{\circ}$ . • □□□□□□□(ii) Give a reason for your answer. .....

(b) Write down the special name for this type of angle.

**10.** (a) Write down the special name for this type of angle.



(c)

This diagram is wrong. Explain why

(3)

(Total 6 marks)

(1)

(1)

(1)

	4w = 20	(a) Solve	11.
$w = \dots $			
	x - 6 = 3	(b) Solve	
$x = \dots $			
	$\frac{y}{3} = 7$	(b) Solve	
$y = \dots $			
(Total 3 marks)			

12. Imran thinks of a number. He multiplies the number by 4 He then subtracts 13 His answer is 47

What number did Imran first think of?

.....

(Total 3 marks)

- **13.** (a) The first odd number is 1.
  - (i) Find the 12th odd number.



(ii) Work out the number of dots used to make Pattern Number 20

.....

(3)

(Total 6 marks)

**14.** There are some pens in a box.

The pens are red, blue, green or black.

The table shows the percentage of red, blue and green pens in the box.

Colour of pen	Percentage
Red	23 %
Blue	35 %
Green	10 %
Black	

Work out the percentage of black pens in the box.

.....%

There are 20 green pens in the box.

Work out the number of blue pens in the box.

(3) (Total 5 marks)

\*15. Robert is in hospital.

He takes a pill every 6 hours. He has some medicine every 8 hours. He has an injection every 12 hours.

At 08 00, Robert took a pill, had some medicine and an injection.

At what time will Robert again have all three together? You must show your working.

(Total 3 marks)

# \*16. The diagram shows two fish tanks, each in the shape of a cuboid.



Finley fills both fish tanks with water.

Which fish tank holds the most water? You must show all your calculations.

(Total 4 marks)

\*17. A basic calculator costs £3 A scientific calculator costs £5 Julie spends exactly £100 on calculators.

Work out the greatest number of calculators that Julie could have bought.

(Total 3 marks)

**18.** A customer who cancels a holiday with Funtours has to pay a cancellation charge. The cancellation charge depends on the number of days before the departure date the customer cancels the holiday.

The cancellation charge is a percentage of the cost of the holiday. The table shows the percentages.

Number of days before the	Percentage of the
departure date the customer	cost of the
cancels the holiday	holiday
29–55	40%
22–28	60%
15–21	80%
4-14	90%
3 or less	100%

The cost of Amy's holiday was £840 She cancelled her holiday 25 days before the departure date.

(a) Work out the cancellation charge she had to pay.

£ .....(2)

The cost of Carol's holiday was £600 She cancelled her holiday and had to pay a cancellation charge of £480

(b) Give the range of the number of days in which Carol cancelled her holiday.

(3)

(Total 5 marks)

# 19. (a) On the grid,

- (i) draw the line x = 3
- (ii) draw the line y = -1
- (iii) draw the line y = x



(3)

(b) On the grid, draw the graph of y = 2x - 3



(3)

(Total 6 marks)

**20.** Solve 2(x+5) = 17 - 3x

- **\*21.** This is a list of ingredients for making a pear & almond crumble for 4 people.
  - Ingredients for 4 people: 80 g plain flour 60 g ground almonds 90 g soft brown sugar 60 g butter 4 ripe pears

Jessica wants to make a pear & almond crumble for 10 people.

Here is a list of the amount of each ingredient Jessica has in her cupboard.

250 g plain flour 100 g ground almonds 200g soft brown sugar 150 g butter 8 ripe pears

Work out which ingredients Jessica needs to buy more of. You must show all of your working.

(Total 4 marks)

22. Peter works out the cost of the gas he used last year. At the start of the year, the gas meter reading was 12967 units. At the end of the year, the gas meter reading was 14059 units. Each unit of gas he used cost 44p.

Work out the mean cost per month of the gas he used last year.

£ ..... (Total 5 marks)



The diagram shows a shape. Work out the area of the shape. Diagram **NOT** accurately drawn

..... cm<sup>2</sup>

(Total 4 marks)

20

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24. Stephen imports cars from the USA. He sells them in the UK.

He has just bought a car in the USA costing \$24 000. It cost him £900 to import the car to the UK.

The exchange rate is  $\pounds 1 = \$1.45$ 

Stephen needs to make a profit of 20% on his total costs.

Work out the least amount that Stephen must sell the car for in the UK. Give your answer in pounds.

£ .....(Total 3 marks)

**25.** People have different reaction times when using either their left hand or their right hand. Melissa wants to investigate this.

Melissa selects a number of students from her class to use as a sample for this investigation.

(a) Give one reason why this is not a good way of taking a sample.

(1)

(b) Describe a better way of taking a sample that Melissa could use.

(1)

(Total 2 marks)

**TOTAL FOR PAPER: 100 MARKS** 

END