Edexcel GCSE Mathematics (Linear) – 1MA0

Mean, Median, Mode & Range

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 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. 1. Chloe made a list of her homework marks.

2.

4 5 5 5 4 3 2 1 4 5

- (a) Write down the mode of her homework marks.
- (1) (b) Work out her mean homework mark. (2)(Total 3 marks) Peter rolled a 6-sided dice ten times. Here are his scores. 3 2 4 6 3 3 4 2 5 4 (a) Work out the median of his scores. (2) (b) Work out the mean of his scores. (2) (c) Work out the range of his scores.

(1) (Total 5 marks)

3.	Her	e are tl	ne weig	ghts, in	kg, of 8	people	e.			
		63	65	65	70	72	86	90	97	
	(a)	Write	e down	the mo	de of the	e 8 we	ights.			
	(b)	Work	c out th	e range	of the w	veights	5.		kg	(1)
									kg (Total)	(2) 3 marks)
4.	Her	e are tl	ne ages	of 6 pe	cople.					
			5	18	10	14	22	12		
	(a)	Work	c out th	e range	of these	ages.				
	(b)	Find	the me	dian ag	е.					(1)
	(c)	Work	c out th	e mean	age.					(2)

(2) (Total 5 marks) 5. Here are the shoe sizes of 6 students.

2 10 7 6 10 9

(a) Work out the range of these shoe sizes.

(1) (b) Find the median shoe sizes. (2) (c) Work out the mean shoe sizes. (2) (Total 5 marks) 6. Jalin wrote down the ages, in years, of seven of his relatives. 40, 43, 43, 39, 45, 38, 39 (a) Find the median age. (1) (b) Work out the range of the ages. (1) (c) Work out the mean age.

> (2) (Total 4 marks)

7. Mr Smith kept a record of the number of absences for each student in his class for one term.

	0	0	0	8	4	5		5	3	2	1		
(a)	Wr	ite d	own t	he mo	de.								
													(1)
(b)	Wo	ork o	ut the	mean	•								
												(Total 3	(2) marks)
Here	e are	: 10 1	numbe	ers.									
			3	2	5	4	2	4	6	2	1	2	
(a)	I	Find	the m	ode o	f these	nun	ıber	s.					
									•••••	••••	••••		(1)
(b)	Fin	d the	e med	ian of	these	numl	bers	•					
										•••••	•••••	•••••	(2)
(c)	Fin	d the	e rang	e of th	nese nu	ımbe	ers.						
									•••••		•••••		

8.

(Total 5 mark)

9.	Her	e are the	test m	narks	s of 6	girls	and 4	1 boys	•				
	(Girls:	5	3	10	2	7	3					
]	Boys:	2	5	9	3							
	(a)	Write do	own t	he n	node o	of the	e 10 n	narks.					
													(1)
	(b)	Work ou	at the	mec	lian n	nark	of the	boys.					
													(2)
	(c)	Work ou	it the	rang	ge of 1	the g	irls' 1	narks.					
													(1)
	(d)	Work ou	ut the	mea	ın ma	rk of	all 10) stude	ents.				
													(2)
												(Total 6	(2) marks)
10.	Her	e are ten i	numb	ers.									
	7	6	8	2	4	5	ç)	7	3	6	7	
	(a)	Work ou	at the	rang	ge.								
											•••••	•••••	(2)
	(h)	Work ou	it the	mea	m								(2)
	(0)	WOIK O	at the	mea									
												(Totol 4	(2)
												(10tal 4)	marks)

11. Here are fifteen numbers.

			10	12	13	15	15					
			17	19	20	20	20					
			21	25	25	25	25					
	(a)	Find the	mode									
										•••••		(1)
	(b)	Find the	medi	an.								
										•••••		(1)
	(c)	Work ou	t the	range								
										•••••		(2)
												(-)
											(Total	4 marks)
12.	A ru	igby team	playe	ed 7 g	ames						(Total	4 marks)
12.	A ru Here	igby team e is the nu	playe	ed 7 g of po	ames ints tl	hey sco	ored in	each ga	ame.		(Total -	4 marks)
12.	A ru Here	igby team e is the nu	playe mber 3	ed 7 g of po 5	ames ints tl	hey sco 8	ored in 9	each ga 12	ame. 12	16	(Total -	4 marks)
12.	A ru Hero (a)	igby team e is the nu Find the	playe mber 3 media	ed 7 g of po 5 an.	ames ints tl	hey sco 8	ored in 9	each ga 12	ame. 12	16	(Total -	4 marks)
12.	A ru Hero (a)	igby team e is the nu Find the	playe mber 3 medi	ed 7 g of po 5 an.	ames ints tl	hey sco 8	ored in 9	each ga 12	ame. 12	16	(Total -	4 marks)
12.	A ru Hero (a)	igby team e is the nu Find the	playe mber 3 medi	ed 7 g of po 5 an.	ames ints tl	hey sco 8	ored in 9	each ga 12	ame. 12		(Total -	4 marks) (2)
12.	A ru Hero (a)	igby team e is the nu Find the rugby tea	media media	ed 7 g of po 5 an.	ames ints tl	hey sco 8 er gamo	ored in 9	each ga 12	ame. 12		(Total 4	4 marks) (2)
12.	A ru Hero (a) The	igby team e is the nu Find the rugby tea y scored 1	playe mber 3 medi medi 1 poi	ed 7 g of po 5 an. uyed a nts.	ames ints tl nothe	hey sco 8 er gamo	ored in 9 e.	each ga 12	ame. 12		(Total 4	4 marks) (2)

..... (3) (Total 5 marks) **13.** Tom recorded the shoe size of five of his friends. Here are his results.

8 9 3 4 7

(a) Work out the median shoe size.

Another friend has a shoe size of 8

(b) Work out the median shoe size of all **six** friends of Tom.

.....

(2) (Total 4 marks)

(2)

14. The mean of eight numbers is 41 The mean of two of the numbers is 29

What is the mean of the other six numbers?

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(Total 3 marks)