Student Bounty Com 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



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.	Chle	oe ma	de a li	ist of	her h	ome	ewoi	rk m	arks.	•						
				4	5	5	5	4	3	2	1	4	5			
	(a)	Writ	te dow	n the	mod	le of	her	hom	ewo	rk n	nark	s.				
															••••	(1)
	(b)	Wor	k out	her m	ean l	hom	ewo	rk m	ark.							(1)
														•••••	••••	(2)
														(T	otal 3	marks)
2.			ed a 6		l dice	e ter	ı tim	ies.								
		3	2	4 6	5	3	3	4	2	5	i	4				
	(a)	Wor	k out	the m	ediaı	n of	his s	score	es.							
												•••••			•••••	(2)
	(b)	Wor	k out	the m	ean (of hi	S SC	ores.								
												•••••	•••••	•••••		(2)
	(c)	Wor	k out	the ra	nge (of hi	is sc	ores.								
												•••••		•••••		(1)
														(T	otal 5	marks)

3.	Her	e are th	e weig	hts, in k	kg, of 8	people	e.				
		63	65	65	70	72	86	90	97		
	(a)	Write	down t	he mod	le of the	e 8 we	ights.				
										kg	(1)
	(b)	Work	out the	range	of the v	veights	S.				
								•••••		kg	(2)
									(Total 3 n	
4.	Her	e are th	e ages	of 6 pe	ople.						
		5	5	18	10	14	22	12			
	(a)	Work	out the	range	of these	e ages.					
											(1)
	(b)	Find t	he med	ian age	·.						
											(2)
	(c)	Work	out the	mean	age.						, ,
											(2)
									(Total 5 n	(2) narks)

				2	10	7	6	10	9				
	(a)	Work out	he range	of th	iese s	shoe	sizes.						
									•••••	•••••	•••••	•••••	(1)
	(b)	Find the m	edian sh	oe siz	zes.								(1)
	(-)												
													(2)
	(c)	Work out t	he mean	shoe	size	S.							
									•••••	•••••		T-4-1	(2)
_	- 11					2		0.1				(1 otal :	5 marks)
6.	Jalii	n wrote dow								elatives	•		
		45,	38, 4	3,	43,	39,	40	,	39				
	(a)	Find the m	edian ag	e.									
								••	• • • • • •	•••••	•••••	••••••	(1)
	(b)	Work out	he range	of th	ne age	es.							
								••	•••••	•••••	•••••	•••••	(4)
	(a)	Worls out	ha maan	0.00									(1)
	(6)	Work out t	ne mean	age.									
								••				Total /	(2) 4 marks)
											'	(I UMI	· mai maj

Here are the shoe sizes of 6 students.

5.

7.	Mr Smith kept a record of the number of absences for each student in his class for one term.												
	Her	e are	his	result	s.								
		0	0	0	8	4	5	5	3	2	1		
	(a)	Wr	ite d	own t	he mo	de.							
	(b)	Wo	ork o	ut the	mean								(1)
											••••	(Total	(2) 3 marks)
8.	Her	e are	2 10 :	numb		_		4					
	(a)]	Find	3 the m	2 node of		4 2	4 ers.	6	2		2	
	(b)	Fin	d the	e med	ian of	these 1	numbe	rs.					(1)
	(c)	Fin	ıd the	e rang	e of th	nese nu	ımbers		••••	••••••	•••••	••••••	(2)
									••••		•••••	(Tota	(2) I 5 mark)

9.	Her	e are the t	test ma	ırks	of 6	girls	and 4	boys.					
	(Girls:	5	3	10	2	7	3					
]	Boys:	2	5	9	3							
	(a)	Write do	own th	e m	ode o	f the	10 m	arks.					
													(1)
	(b)	Work or	at the r	nedi	ian m	ark c	of the	boys.					
													(2)
	(c) Work out the range of the girls' marks.												
											• • • • • •	•••••	(1)
	(d) Work out the mean mark of all 10 students.												
												(Total 6	(2) marks)
10.	Her	e are ten 1	numbe	rs.								(Total o	iidi Ka
	7	6	8	4		5	9	7		3	6	7	
	(a)	Work ou	it the r	ang	e.								
									•••	••••••	• • • • • • • • • • • • • • • • • • • •	••••••	(2)
	(b)	Work ou	it the r	neai	n.								
									•••	••••••	••••••	(Total 4	(2) marks)
												(IVIII T	mu no)

11.	Here	e are fiftee	en nu	mbers.	•							
			10	12	13	15	15					
			17	19	20	20	20					
			21	25	25	25	25					
	(a)	Find the	mode	e .								
									•	••••••		(1)
	(b)	Find the	medi	an.								
									•			(1)
	(c)	Work ou	t the	range.								
									•	••••••••	(Total 4	(2) marks)
12.	A ru	igby team	play	ed 7 ga	ames.							
	Here	e is the nu	mber	of poi	ints the	ey sco	red in	each ga	me.			
			3	5	8		9	12	12	16		
	(a)	Find the	medi	an.								
										•••••	•••••	(2)
		rugby tea y scored 1	_	-	nother	game.						(2)
	(b)	Find the	medi	an nur	nber o	f poin	ts scor	ed in th	ese 8	games.		
										•••••	(Total 5	(3) marks)

13.		n recorded the shoe si e are his results.	ze of	five (of his	frien	nds.						
			8	9	3	4	7						
	(a)	Work out the media	n shoe	size									
	(b)	Another friend has a Work out the media				 l six	friends of Tor	(2 n.	!)				
14.	The	mean of eight number	ers is 4	1 1				(2 (Total 4 marks					
	The mean of two of the numbers is 29												
	Wha	at is the mean of the o											
							••••••	(Total 3 marks	s)				