Chapter-14

Measures of Central Tendency and Dispersion

	MTP March '20
1.	For open-end classification, which of the following is the best measure of central tendency? [MTP Oct. '19, March '19]
	(a) AM (b) GM (c) Median (d) Mode
2.	In case of an even number of observations which of the following is median?
	(a) Any of the two middle-most value
	(b) The simple average of these two middle values
	(c) The weighted average of these two middle values (d) Any of these
3.	For a moderately skewed distribution, which of the following relationship holds?
	[MTP March '19, April '19]
	(a) Mean – Mode = 3 (Mean – Median) (b) Median – Mode = 3 (Mean – Median) (c) Mean – Median = 3 (Mean – Mode) (d) Mean – Median = 3 (Median – Mode)
4.	Two variables x and y are given by $y = 2x - 3$. If the median of x is 20, what is the median of y?
"	[MTP Oct. '19]
	(a) 20 (b) 40 (c) 37 (d) 35
5,	(a) 20 (b) If the relationship between two variables u and v are given by $2u + v + 7 = 0$ and if the AM of u is 10, then the AM of v is
	(b) -17 (c) -27 (d) 27
6.	The appropriate measure of dispersion for open-end classification is
0,	(b) Mean deviation
	(d) All these measures
7.	(c) Quartile deviation (d) Quartile deviation (e) Quartile deviation (f) Quartile deviation (g) Qu
	(h) 7 RX= 3 RV (c) 3 10 2 11 (a) 11 2 RV
8.	(a) $Rx = Ry$ (b) $2 Rx = Ry$ [MTP April '19] If x and y are related by $2x+3y+4=0$ and SD of x is 9, then SD of y is [MTP April '19]
•	/h/ h
9,	(a) 22 (b) 6 The quartiles of a variable are 45, 52 and 75 respectively. Its quartile deviation is (c) 25 (d) 830
*	/[-]
10.	(a) 15 (b) 20 (a) 15 (b) 20 (b) 20 (c) 15 (d) 15 (d) 15 (e) 15 (e) 15 (e) 20 (e) 15 (f) 20 (e) 15 (f) 20 (e) 15 (e) 20 (
	is (b) 14 (c) 10 (d) 12

				to be 5 and 10respectively, then the	
			and AM of x are known	to be 5 and -	24.
11.	If x and y are related b	yy = 2x + 5 and the SD a	IIIu Aivi s	(d) 20 [^]	-
		(b) 30	(c) 40		
	(a) 25	MTP (October '19	2v 3x nx is	
			an anactive freque	ncies X, ZX, SX,	25
12.	The mean of the valu	es of 1, 2, 3, 11	with respective $\frac{2n+1}{3}$	ncies x, 2x, 3x, nx is $(d) \frac{2n+1}{6}$	
	(a) $\frac{n+1}{2}$	(6) 2	antant a is ac	ided to each observation, the mean	
13.	The mean of four obs	servations is 10 and w	hen a constant a le		2
	becomes 13. The value	e of a is	(c) 3	(d) None of these	133
	(a) 2	(b) -3	km/hr and from B to	A at the rate of 30km/III. What is the	
14.	A person travels from average rate of whole	A to B at the rate of 20	Killyill	A at the rate of 30km/hr. What is the [MTP March '21]	10
	average rate of whole	journey.	. /1	(d) notice of these	100
	The average salary of	a group of unskilled W		1 that of a gloup of similar	133
15.	Rs.15,000. If the comb	oined salary is Rs.12,00	00, then what is the po	ercentage of skilled workers? (d) none of these	18
	(a) 40%	(b) 50%	(c) 60%	[MTP April '19]	
16.		e numbers 15, 10, 20,	25, 18, 11, 9, 12 is		
	(a) 13	(b) 10.70	(c) 11	(d) 11.50	
17.	If the SD of x is 3, who	at us the variance of (5	5–2x)?	A CHARLES AND A	
	(a) 36	(b) 6	(c) 1	(d) 9	
18.	If the values of all ob	servations are equal t	hen the Standard Dev	iation of the given observations is	
	(a) 0	(b) 2	(c) 1	(d) None of these	
19.	The Standard Deviation by 5.	on of a set of 50 items	is 10. Find the Standar	d Deviation if every item is increased	
	(a) 15	(b) 5	(c) 10	(d) None of these	
20.	Find the coefficient of is 360.	variation if the sum of	f squared deviations to	aken from mean 40 of 10 observations	
	(a) 15	(b) 20	(c) 40	(d) None of these	
21.	The average of n num	nbers is x. If each of th	ne numbers is multipli	ed by (n+1); then the average of new	v
	(a) x	(b) $\frac{x}{n+1}$	(c) (n + 1).x	(4)	
	(a) A	n+1	(0) (11 : 1).	(d) None of these	
22.	The average weight of person, what would be	of 8 person increases be the weight of the r	by 1.5 kg, if a personew person?	on weighing 65 kg replaced by a new	N
	(a) 76 kg	(b) 80 kg	(c) 77 kg	(d) None of these	
23.	The presence of extr	eme observations doe	es not affect		
	(a) AM	(b) Median	(c) Mode	[MTP March '19, April '19] (d) Any of these.	

25.

26.

27.

28.

.1	Which of the following	MTP March '19		
24.	(a) AM = GM = HM	MTP March '19 3 results hold for a set of distinct	t positive observati	ons?
	(c) AM>GM>HM	(b) $HM = GM = AM$		
		(d) GM>AM>HM		
25.	(a) Two equal parts	es dividing a given set of observa	ations into	
	(c) Five equal parts	(b) Four equal parts		
		(d) None of these		
26.	(a) 20	by $x-y-10=0$ and mode of x is ki	nown to be 23, the	n the mode of y is
	(a) 20	(b) 13 (c)	3 ((d) 23
27.	What is the value of th	ne first quartile for observations	15, 18, 10, 20, 23, 2	8, 12, 16?
	(a) 17			(d) 12
28.	If the relationship between the AM of v is	veen two va riables u and v are gi	ven by 2u + v + 7 = 0	and if the AM of u is 10, then
	(a) 17	(b) -17	-27	(d) 27
		MTP April '19		
29.	Quartiles can be dete	ermined graphically using		
	(a) Histogram	(b) Frequency Polygon	(c) Ogive	(d) Pie chart
30.	If there are 3 observa	ations 15, 20, 25 then the sum o	f deviation of the o	observations from their AM is
	· · ·	(b) 5 (c)	-5	(d) None of these.
31.	Which measures of o	lispersions is not affected by th	e presence of extr	eme observations?
21.		(b) Mean deviation	1	
	(a) Range (c) Standard deviat	tion (d) Quartile deviat	ion	
	(c) Standard deviation	sed on only the central fifty pe	rcent of the observ	vations?
32.			ion	
	(a) Standard deviat	IIIII V	urac	
	(c) Mean deviation	the same for the	e last ten months,	then the standard deviation of
33.	If the profits of a co	(d) All these meas mpany remain the same for the months would be?		
	If the profits of a col	(b) Negative (c)		(d) (a) or (c)
	(a) Positive			
34.	The range of 15, 12, 1	(c), 9, 17, 50 to) 13	(d) 21
	(a) 5	(b) 12	3x +50 ?	
35,	If the range of x is 2,	what would be the range of -3 (b) 6 (c)) -6	(d) 44
	(2) 2	(b) 6		

		rule .
	If x and y are related by $2x+3y+4=0$ and SD of x is 6, then S (c) 40	sp of y is (d) 9
36.	If x and y are related by $2x+3y+4=0$ and (c) 40	
	(a) 22 (b) 4 MTP-March '19	
		I Deviation
37.	(a) Range (b) Mean Deviation	ndard Deviation
	(d) All these measures	The state of the s
38.	The range of 15, 12, 10, 9, 17, 20 is (c) 13	(d) 11
10,	(b) 12	(d) O
39.	The standard deviation of, 10, 16, 10, 16, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	
10	(a) 4 (b) 6 If all the observations are multiplied by 2, then (b)	New SD would be half of the previous SD sp. would be decreased by 2.
10.	(a) New SD would be also illultiplied 27 -	Now SD Would
	(c) New SD would be also mattplied by 2 (d) The quartiles of a variable are 45, 52 and 65 respectively.	Its quartile deviation is
11.	The quartiles of a variable are 45, 52 and 65 respectively.	[MTP OCt '20]
	(a) 25	(4) 830)
	(a) 10 (b) 20 (c) 23 MTP-Oct '20	
	WITP-OCC 20	as as 1 2 35 . then what is the AM?
12.	Two variables assume the values 1,2, 3, 5 with frequencies	es as 1, 2, 3,3 , then the same as 1, 2, 3,3 , the same as 1, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,
	(a) 11/2 (b) 15/8 (c) 4.0	(4) =
13.	If there are two groups with 75 and 65 as harmonic me combined HM is given by	[INIT MIGICII 21]
	(a) 70 (b) 72.25 (c) 78	(d) 76
14.	Quartile can be determined graphically using	
	(a) ogive (b) Histogram (c) Pie	
15.	The mean deviation about Mode for the numbers 4/11, 6/1	
	(a) 9/15 (b) 12 (c) 6/1	.1 (d) 1/6
16.	The range of 28, 22, 40, 20, 15, 50 is	
17.	(a) 40 (b) 22 (c) 35	(d) none
	A shift of origin has no impact on (a) Mean Deviation (b) Standard Deviation	
18.	(c) Quartile Deviation (d) All of the What is the coefficient of variation of the following number (d)	niese
	What is the coefficient of variation of the following number (a) 18.09 (b) 8.09 (c) 12	pers 53, 52, 61, 60, 64
19.	(a) 18.09 (b) 8.09 (c) 12 The mean and SD for a, b, and 2 are 3 and 1 respectively, (a) 3 (b) 11.5 (c) 12	that (d) 15.45
	(a) 3 (b) 11.5 (c) 12	, the value of ab would be
50.	If the relation between x and y is 5y -3x = 10 and the me mean deviation of y about mean is (a) 9.20 (b) 6.80 (c) 7.5	(d) 13
	mean deviation of y about mean is	deviation about mean for x is 12 then the
51.	which measure of dispersion is based on all the observe	ations (d) 15.80
	(b) Mean Deviation	riation
	(c) Quartile Deviation (d) Both (a) a	nd (b)
		14

Chanter 14

1	The sum of the squares of de	eviation :	larch '21			lone
2	The sum of the squares of de are taken from their:	of a set of	observations has	the smallest va	lue, when the deviat	ions
1	(a) A.W.	O) HAA				
3	are 1 and 0.3 respectively,	related by 2x +3y - then the co-efficie		(d) N an and mean de tion of y about		ofx
1	If the A.M. and H.M. for tw	o numbers are 5 a	nd 3.2 respectivel	v then the G.N	1. will be:	
	1-1	01 10	1-1 4	(4)	4.10	
1	What is the coefficient of	range for the follo	wing distribution	?		
(Class interval 10)-19 20-29		40-49	50-59	
1	Frequency	11 25	16	7	3	
1	(a) 22	(b) 50	(c) 75.82	(d)	72.46	
1	G.M is a better measure th		(0) /3.02			
	(a) ratios and percentage		(b) ir	nterval of scale	e is given	
	(c) Both (a) and (b)		(d) E	ither (a) or (b)		
	The sum of squares of dev	iation from mean	of 10 observation	s is 250. Mean	of the data is 10. F	ind the
	coefficient of variation.	ration from mean	01 10 00301 (41.01)			
		(b) 25%	(c) 50%		0%	
	The equation of a line is 50	x + 2y = 17. Mean	deviation of y abo	ut mean is 5. C	alculate mean devia	ation of
	x about mean.	anakka da				
		(b) 2	(c) -4	(d)	None	
	(a) -2 If variance of is x is 5, the	n find the varianc	e of (2- 3x)			
	If variance of is x is 3, the	(b) 45	(c) 5) -13	
	(a) 10 Let the mean of the varia	ble 'v' he 50, then	the mean of u=1	0+5x will be:		
	Let the mean of the varia	(h) 260	(c) 265	(d) 273	
	(a) 250	(b) 200 1 = 3390 N =	30 and standard of	deviation = 7, f	ind out the mean.	
	(a) 250 If sum of squares of the v	alues = 5556, 11	(c) 8	(0) None of these	. 10
	(a) 113 Which of the following m	(b) ZIU	I tendency canno	t be calculate	d by graphical met	hod?
	Which of the following m	neasures of centre	(c) Medi	an (d) Quartile	
	(-) Mann	(0)				
	(a) Mean For open-end classification		MTP-March'22		f control tondono	?
		i ch of the	following is the b	est measure of	or central tendency	
	For open-end classification	on, which of the	(c)	Median	(a) Mode	
	(a) AM	(b) GIVI	65 respectively. It	ts quartile dev	riation is	
	For open-end classification (a) AM The quartiles of a variable	le are 45, 52 and	(c)	25	(d) 8.30	
	The quartiles of a ver	(b) 20				time
	(a) 10 For a moderately skewe		he median is twi	ce the mean ,	then the mode is	cirrie
	1,0110	wd distribution, t	ne me			
	For a moderately skewe					
	the median.					

				(d)	2
			(c) $\frac{2}{3}$	(4)	2
	(a) 3	(b) 2	(c) $\frac{2}{3}$ age for a group of boys is	70 and comb	ined average is
	(a)	or an of 30 girls is 80, aver	age for a group of boys is		
66.	If average marks for ag 76, then how many bo	vs are in the group?		(d)	19
	76, then now many bo	(b) 20	(c) 22	1	
	(a) 21	e set of observations 48, 3	6, 72, 87, 19, 66, 56 and 9 (c) 61	(d)	19
67.					
	(a) 53	are related by c= ab then	$GM.ofc =$ (b) $GM.ofa \times GM.ofa$	fb	
68.			- 10000	of b	
	(a) CM of a -GM of h				
	(c) Oill of a		ean weight of 5 of them is remaining students is:	s 100 kg. and	d of another five
69.	The mean weight of 15	students is 110 kg. The m	ean weight of 5 of them.		
03.	Students is 152 vg. the	il the mean	415	(u)	110110
	(a) 120	(b) 105	(c) 115	an between	them is 16. The
70.	If the Arithmetic mean	between two numbers is	(c) 115 64 and the Geometric me		
	Harmonic Mean between	een them is		(d)	40
	(a) 64	(b) 4	(c) 16		
71.	If $2x + 3y + 4 = 0$ and V		(-) 0	(d)	6
	(a) 8/3	(b) 9	(c) 9		
72.	The absolute divation	are minimum when taker		(4)	GM
	(a) Mean	(b) Median	(c) Mode		
73.		s 3x-4y= 20 then the Quar	tile divation of x is 12, the	en the Quart	ille deviation of
	is:	/L) 15	(c) 16	(d)	9
	(a) 14	(b) 15		(u)	3
		MTP-O	<u>ct'21</u>		
74.	If x and y are related b	y x-y-10 = 0 and mode of	x is known to be 23, ther	the mode	of y is
	(a) 20	(b) 13	(c) 3	(d)	
75.	If the quartile deviatio	n of x is 6 and $3x + 6y = 2$	0, what is the quartile dev	viation of v?	
	(a) 3	(b) 4	(c) 5	(d)	
				(4)	•
76.	The median of 27, 30, 2	26, 44, 42, 51, 37 is			
	(a) 30	(b) 42	(c) 44		
77.	Mean of 25,32,43,53,62	2,59,48,31,24,33 is		(d)	37
	(a) 44	(b) 43	(c) 42		
78.	If the A.M of any distri	bution be 25 & one term	is 18. Then the deviation	(d)	41
	(a) 7	(b) -7	(c) the deviation	of 18 from	A.M is
79.	The algebraic sum of t	he deviations of a frague	(c) 43 ncy distribution from its	(d)	none
	(a) greater than zero	(h) less than zero	(a)	mean is alw	/avs
	2010	(b) less than zero	(c) zero	(d) a non-	zero number
					-cro number

	pooled Mean is also called
P	. Maan
	(b) Geometric Mean (c) Grouped Mean (d) none
	which of the following:
4	which of the following is not a criteria for ideal measure of central tendency? (a) It should be ambiguously defined
	(a) It should be ambiguously defined (b) It should be simple to compute
	(c) It should be based on all the all
	(c) It should be based on all the observations (d) None of these
2	At ABC ltd, the average age of employees is 36. Average age of male employees is 38 and that of females is 32. Find the ratio of female to male in the company.
	(a) 1:3 (b) 2:1 (c) 1:2 (d) 3:1
83.	The mean height of girls in class is 162cm while for boys is 182cm. The ratio of number of girls: boys is
	1:2. Find the mean height of the whole class
	(a) 170 cm (b) 180 cm (c) 154 cm (d) None
84.	In the equation $4x+2y = 3$, quartile deviation for y is 3. Find the quartile deviation for x.
	(a) 4.5 (b) 6 (c) 1.5 (d) None
85.	The Standard deviation is independent of change of
	(a) Scale (b) Origin (c) Both (a) and (b) (d) None
86.	Find D6 for the following observations. 7, 9, 5, 4, 10, 15, 14, 18, 6, 20
	(b) 12.40 (c) 13.40 (d) 15.60
87.	If II the absorvations are decreased by 4, find the relation between new SD and old SD.
91.	Now SD = Old SD/2
	(4) 100
00	Chard-deviation of first n natural number is 2. What is the value of t
88.	(h) b
00	(a) / standard deviation of x is 4
89.	(h) 100
	(a) 9 (b) 30.48 (c) 33.75 (d) None (b) 30.48
90,	if the variance of x = 148.6 and mean (c) 33.75 (d) None (a) 37.15 (b) 30.48 The average of 10 observations is 14.4. If the average of first four observations is 16.5. The average of 10 observations is: (b) 30.48 (c) 13.2 (d) None
	(a) 37.15
91.	The average of 10 observations is: (c) 13.2 (d) 12.5
	remaining 6 observations is: (c) 13.2 (d) 12.5 remaining 6 observations is:
	remaining 6 observations is: (b) 13.0 (b) 13.0 (c) 13.2 (d) 12.5 (d) 12.5 (e) 13.6 (e) 13.6 (f) 13.0 (f) 13.0 (g) 13.0 (h) 12.5 (h) 13.0 (h) 12.5 (h) 13.0 (h) 13
32.	If the rates return from three (c) 200% (d) 300%
	of return will be. (b) 233.33% (c) payimum number of conditional distributions is:
	of return will be. (b) 233.33% (c) 200% (d) 300% (d) 300% (e) 235 (e) 35 (f) 200% (ii) 300% (iii) 300% (iii) 300% (iii) 233.33% (
33	For a 4 x 7 classification of 28 (b) 28
	(a) 11
	(a) 11 (a) 11 (b) State: Compiler 97 (a) 11 (b) Ar Institute CA Foundation Paper 3: Business Maths and LR & State: Compiler 97
	Paper 3: Busine,

94.	Find the two numbers if AN	// and GM is 10 and 6 respo	ectively (c) 9,4	(d) 18, 2
	1-1 66	0) 12,0		and then AM of remaining
		And of first	9 observations is 11	and then the terraining
95.	The AM of 15 observations	s is 9 and the Alvi of inst		and then AM of remaining (d) 9
	observations is:	(h) 6	(c) 5	12 and 8 respectively The
	In a moderately skewed di	stribution the values of m	nean and median are	12 and 8 respectively. The
96.	value of mode is:	Stribution the table		(d) 30
	(a) 0	(b) 12	(c) 15	
97.	Which of the following is p			(d) AM
	(a) Median	(b) GM	(c) HM	(u) Aivi
98.	For a symmetric distributio			. 211227
	(a) Mean = Median = Mod		(b) Mode = 3 Me	edian – 2 Mean
	(c) Mode = 1/3 Median = 1		(d) None	
99.	For the distribution			
	x f	cs .	The state of the s	
	1 6			
	2 9			
	3 10			
	4 14			
	5 12			
	6 8			
	The value of median is:			(20
	(a) 3.5	(b) 3	(c) 4 840.75 (t)	(4) 5
100.	The QD of six numbers 15, 8		: (0 B=13.25)CO	14-10251
		3 (b) 25	(c) 13.5 A. A	3 (d) 37 40.25
101.	SD of first five consecutive		(0) 23.3 (0)	(d) 37
102	(a) \sqrt{10}	(b) $\sqrt{8}$	(c) √3	(d) $\sqrt{2}$
102.	If the profit of a company r	emain same for the last	10 months then the s	(d) $\sqrt{2}$ D of profit of the company
	(a) Positivo	(1.)	and the same of	or profit of the company
103.	(a) Positive	(b) Negative	(c) Zero	(4) 6:41
	Coefficient of Quartile Devia		?	(d) either (a) or (c)
104	(a) 5/3	(b) 4/3	(c) 3/4	
104.	of mean and SD of	a series is a + b, if we add	2 to each observer	(d) 3/5 n of the series then the sum
	(a) a+b+2	(6)	- Joel Vation	of the series then the sum
		(b) 6-a+b	(c) 4+a-b	
				(d) a+b+4

Jus.	In a group of persons, aver 80 kg and 50 kg respective (a) 2:3	ly, find the ratio of the	ne average of males and	d females taken separately is
	(0)	11.1 -	ratifice of males to the	
106.	hr. The average speed of the		(c) 2:1 eed of 30km/hr and nex	(d) 1:2 at 15 km at a speed of 45 km/
	(a) 38 km/hr			
107.	If the standard deviation of	1.234 40 km/hr	(c) 36 km/hr	(d) 42 km/nr ation of 11, 12, 13, 14,, 20
	is:	-, 2, 3, 4, 10 is σ,	then the standard devia	ation of 11, 12, 13, 14,, 20
	(a) 10 o	(b) 10+0	1000- 1	(d) None of these
108.	What is the standard devia	ation of the following or	(0) 0	(a) None of the
	Measurements	1.10		30-40
	Frequency:	10-20	20-30	2
	(a) 81		(a) 0	(d) 2.26
109.	If the difference between		(c) 9	tween Mean and Median will
103.	be:	Wicdin and Mode 15 69,	then the difference be	2 - M),
	(a) 63	(b) 31.5	69 = 3(10) 23	(d) None of these
110.	If all observations in a dist	ribution are increased b		of the series will be un change
	(a) Increased	(b) Decreased	(c) Unchanged	(d) None of these.
111.	Which measure of dispers	ion is base on the abso	olute deviation only?	
	(a) Range	(b) Standard De	eviation (c) Mean De	vaition (d) Quartile Devation
113	Calculaue the value of 3rd		ving data 40, 35, 51,30,	21, 25, 16, 29, 27, 32
112.	· · · · ·	(h) 30.25	(c) 25	(d) 35
***	(a) 36.25	was 45 Later on, it \	was discovered that the	e marks of two students were
113.	misread as 85 and 54 inste	ead of 58 and 45. Find c	Office means	
	1/1 7	(h) 26	(C) TT.UT	(d) 52
114	(d) 00	coefficienct of variation	of data set x are respe	ctively, 10 and 30. The variance
114.	of 30-2x is			
		(b) 32	(c) 34	(d) 36
110	(a) 28 The approximate ratio of 5	SD, MD, QD is	10	10.567
115.	The approximate ratio	(b) 3:4:5	(c) 15:12:10	(d) 5:6:7
44.	(a) 2:3:4 The geometric mean of th	ree numbers 40, 50 and	$d \times is 10$, the value of x	cis $10 = Juox50 xox$
116.	The geometric mean of the	(b) 4	(c) 2	(d) ½
	(a) 5	- em 2 li	ine'22	29 0,=17
		IVI 2	-tions is 10 18 20 28 1	5 17 22 25 29 32 34 is equal to:
117.	- deviation fro	m the following observ	(c) 10	.5,17,22,25,29,32,34 is equal to:
411.	The quartile deviation	(6) 6	(c) 10	(4) 3
4.	(a) 8 Variance of first five cons	ecutive natural number	(c) 3	(d) 2
118.	Variance of first five cons	(b) 8	(0) 3	
	(a) 10 ar Institute CA Foundat		ass Maths and LR &	Stats: Compiler 99

			pany remains sam		lest 10 months t	hen the	SD of profit of	the cor	mpany
119.	would be		(b) Ne innings makes a spings?		d		lul cicio.		•
120.	average a	n in his 12th ofter 12th inn		core of 12			(d) 70		
1	(a) 60		(b) 55		(c) 65	ir	is m	inimun	n.
121.	The sum (a) Arith	of squares of nmetic Mean	f the deviations of (b) Me	the given	(c) Mode		(d) None o	f these	
122.	When me	an is 3.57 an	d mode is 2.13 th	en the val	(c) 4.01		(d) None o	f these	
123.	The mean	of first three	e terms is 14 and	mean of n	ext two terms is	18. The	mean of all liv	e term	5 15
	(a) 14.5		(b) 15		(c) 14		(d) 15.6		
124.			n of a variable x is						
	(a) 50		(b) 100	2/2	(c) 10	0.	(d) 500		
25.	The Quart	f SD	(b) 4/5	of SD	(c) 5/6 of S	D = 3/	30		
	(d) None								
.26.		Quartile is 14	2 and Semi-Inter	1		the valu	e of Median is	::	
-	(a) 151			0106	(c) 178		(d) None of	f these	
.27.	Geometric	Mean of 8,4							
28.	A	erence betwe	(b) 2 een mean and mo	de is 33, t	(c) 8 then the differen	re hetw	(d) none of	these	-
					23.02.14)	ce perw	een wean and	Media	in wil
	(a) 63		(b) 31.5		(c) 11		(d) None of	the ab	ove
			A	NSWER H	KEYS				
	1	(-)	_			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	1	(c)	2	(b)	3	(a)	4	(c)	
	5	(c)	6	(c)	7	(c)			
	9	(a)	10	(d)	11		8	(b)	
	13	(c)	14	(b)		(c)	12	(c)	
	17	(a)	18	(a)	15	(a)	16	(b)	
	21	(c)	22		19	(c)	20	(a)	
	25	(b)		(c)	23	(b)	24		
			- 26	(b)	27	(c)		(c)	
	29	(c)	30	(a)	31	(d)	28	(c)	
	33	(c)	. 34	(d)	THE TANK SEAL OF		32	(b)	
					35	(b)	30		

(b)

37	(d)	38	1.13	*	
41	(a)		(d)	39 (c)	40 (a)
45	(d)	42	(a)	43 (a)	44 (a)
49	(b)	46	(c)	47 (d)	48 (b)
53	(c)	50	(c)	51 (d)	52 (a)
57	(c)	54	(c)	55 (d)	56 (a)
		58	(b)	59 (b)	60 (b)
61	(c)	62	(a)	63 (c)	64 (a)
65	(b)	66	(b)	67 (c)	68 (b)
69	(b)	70	(b)	71 (a)	72 (b)
73	(d)	74	(b)	75 (a)	76 (d)
77	(d)	78	(b)	79 (c)	80 (c)
81	(a)	82	(c)	83 (d)	84 (c)
85	(b)	86	(b)	87 (d)	88 (a)
89	(d)	90	(b)	91 (b)	92 (c)
93	(a)	94	(d)	95 (b)	96 (a)
		98	(a)	99 (c)	100 (c)
97	(a)	102	(c)	103 (a)	104 (a)
101	(d)	106	(b)		107 (c)
105	(d)		(ç)	110 (c)	111 (c)
108	(c)	109		114 (d)	115 (c)
112	(a)	113	(c)	118 (d)	119 (c)
116	(d)	117	(b)	122 (a)	123 (d)
	(c)	121	(a)	126 (b)	127 (a)
120		125	(a))	
124	(a)				
128	(c)				

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