Zaid Amin Rawfin

ID: 20-42459-1

Serial: 13

Class	t	u	fre	f logu	\$/re	u-ū (== <u>75</u> =3·75)	f u-te	Hu-3)
1-2	ı	1.5	1.5	0.176	9.66	-2.25	2.25	506
2-3	3	2.5	7.5	1.194	1.2	-1.25	3.75	4-687
3-4	8	3.5	5.8	4.352	2.286	-0.25	2	6.5
4-5	6	ધ -5	23	રુ.ગ૭	1.33	0.75	4.5	3.375
5-6	2	5.5	lı	1.48	0.384	1.75	3.5	6.125
Tolal	20%)		75	11.12	5.87	-	16	19.75

a)
$$AM_{2} = \frac{75}{20} = 3.75$$

 $6M_{2} = Antilog \left(\frac{11.12}{20}\right) = 3.597$
 $HM_{2} = \frac{20}{5.87} = 3.41$

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b)	Class	frequency	Completive Frequency (c)
	1-2	1	1
	2-3	3	4
	3-4	8	12
	4-5	6	19
	5-6	2	20
	f	The state of the s	

median =
$$3+\frac{\frac{20}{2}-4}{8\times 2-3-6}\times 1=3.75$$

mode = $3+\frac{8-3}{8\times 2-3-6}\times 1=3.71$

C) As, mean > median > mode, It is positively skewed.

e) vaniance,
$$\delta^2 = \frac{19.75}{20} = 6.9875$$

8D, $\delta = 0.99$

$$f) CV = \frac{0.99}{3.75} \times 100\% = 26.5\%$$

3.1) let, $A = \text{multiple of } 3 = \{5, 6, 9, 12, 15, 18\}$ B = " $5 = \{5, 10, 15, 20\}$

(Ans)

3.3) Total numbers of balls 24+5+6=15

Probability of getting all reds

= \frac{5cq}{15cq} = \frac{2}{91} (Ans.)

3.4) Total Engineers = 5.6=11

a)
$$\frac{5e_{4}}{11e_{4}} = \frac{1}{16}$$

b) $\frac{5e_{2}}{11e_{4}} = \frac{5}{11}$ (Ans)