Name: Joy Motubben

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section:- 0 Servial:07

					_			7
	Closs	frequency	eumulative frequency	mig (x)	f.×	f 10g x	1/4	
	1-2	1	1	1.5	1.6	6.17	0.667	
1	2-3	3	4	2,6	7.5	1.19	1.20	
ľ	3-4	8	12	3.5	.28	4.35	2.28	
T	4-5	6	18	4.5	27	3.81	1.33	
	5-6	2	20	5.5	11	1.48	0.36	$\frac{1}{2}$
1	Total:	n = 20			75	11112	5.84	

Detrithmetic Mean:

$$\frac{1}{Am} = \frac{1}{n} \sum_{i=1}^{n} s_{ixi} = \frac{75}{20} = 3.75$$

Harmonic Mean:

$$HM = \frac{\gamma}{\sum_{i=1}^{1} \frac{di}{x_i}} = \frac{20}{5.84} = 3.42$$

median: Harre, n/2=10;

for class 9-4, cf>10,50 median class is (3-4)

We know that,

Median =
$$1 + \frac{n}{2} - e \times n$$

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

Hower limit of median class 1= 3 = 3+ 20-4 x1 Tef of previous class of median class (c) = 4

Servial: 07

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Modes The class 3-4 contains the highest frequency So, the model class is (324)

We know that

$$f_{m} = 8$$

Mode = L + $\frac{f_{m} - f_{1}}{2f_{m} - f_{2} - f_{2}} \times h$
 $f_{1} = 3$
 $f_{2} = 6$

$$= .3 + \frac{8-3}{(2\times8) - 3-6} \times 1 \qquad L = .3$$

$$fm=8$$
 $f1=3$
 $f2=6$

	:100021	5 mma	1	OF TOTAL	AIN	1 5 0 3	-12-
Class	5	×	2×	¥	12-7	f (x-x)	f (x-x)2
1-2	1	116	1.5		2.25	2.25	5.06
2-3	3	2.8	7.5	-Januar	1.25	3.750	4.68
3-4	8	3.5	28	75/20	0.25	112 M	0,6
418	6	415	27	=3.75	0.76	4,8	3.37
6-6	2	5.8	1		1,76	3.5	6.12
Total:	n = 20	00:	76	BULL	1	16	19.75
107.4	7						1

0 = 137,8 = 37,8

Mean deviation:

$$MD = \frac{1}{n} \sum_{i=1}^{n} \frac{1}{x} - \frac{16}{x^{i}} = \frac{16}{20} = 0.8$$

Variance:
$$a^{x} = \frac{19.75}{120}$$

= $\frac{19.75}{20}$

Librai adi watappe

Name: Jay Matubber

Spirist: Of Servial: 07

Handard deviation, and was as and are a soll

9D= 0= 10.98 = 0.8989

Coefficient of forceation:
$$CV = \frac{a \times 100\%}{2} \times 100\%$$

$$= 26.39\%$$

Skewness = Mean - median

36, the distribution is symmetrical.

(3.1) Probability

Tickets and numberided as 1 to 20.

A=Multiple of 3=1 3,6,9,12,18,18; 50, P(A) = 6

 S_0 , S_0 ,

P(AUB) = P(A) +P(B) - P(ADB) 7 20 +40 - 20

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There are 15 boys and 10 girls in a class so, Total number of student = 30.25

Now, 1 girl and 2 boxes total three studends select at rundomly,

The probability will be be x 10e1

(3.3) A bag contains 4 white, 5 red, and 6 blue balls

Total balls are is 15.

It. 9 drawn three balls at randomly

The probability that all of them are red will be = Beg
Beg

 $=\frac{2}{01}$ Ans:

(3.4) The mobile operatores office there are 5 electronic engineens and 6 computers engineers

1. total = 6 + 6 = 11

A Committee of 4115 to be formed randomly to periforcing a duty. Then the probitity will consist.

Ail electronic engineers, = Beg

de ban bossa etidos antolnos 100 A (3.9)

2 electronic engineers and 2 computer engineers, the probibity will be.

 $P(3) = \frac{5e_2 \times 6e_2}{1111e_4}$

 $= \frac{3}{11}$ = 45.54 %