Assignment -2 Name: Md. Shanjidul Islam Sadhin ID: 20-42621-1 Sezial: 15

Calculated Mean deviation, varience, Standard deviation 2 coefficient variation from below data set.

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ID	Age	7	九二元	12:-2	(24; - 7c) 1	<
17-35338-3	23	100	1.400	1.4	1.96	- carles
18-36264-1	2.2		0.4	0.4	0.16	353 7463
18-36303-1	21	(12	-0.6.	0.6	0.36	
19-41241-2	22		0.4	0.4	0-16	Arithmy
20-41959-1	21	324	-0.6	0.6	0.36	
20-42006-1	20	15	-1.6	1.6	2.56	
20-42042-1	21	=21.6	-0.6	0.6	0.36	
20 - 42079 - 1	21		-0.6	0.6	0.36	
20-42107-1	22		0.4	0.4	0.16	Seome
20-42439-1	22	63	6.004	0.45	0.16	
20-42459-1			0.4	0.4	0.16	
20-42488-1			0.4	0.4	0.16	
20-42621-2	21		-0.6	0.6	0.36	
20-42668-1	22		0.4	0.9	0.16	
26-42669-1	22	€ garit	0.4	0.4	0.16	
Total	15			9.2	7.6	
			n .			

Mean deviation = $\frac{1}{n}\sum_{i=1}^{m}|x_i-\bar{x}| = \frac{9\cdot 2}{15} = 0.6133$ Varience $\sigma = \frac{1}{n}\sum_{i=1}^{m}(x_i-\bar{x}) = \frac{7\cdot 6}{15} = 0.5067$ Standard deviation $\sigma = \sqrt{2}$ Variance = $\sqrt{2}$, $\sqrt{2}$ = 0.7118 Coefficient variation = $\sqrt{2}$ ×100% = $\sqrt{2}$ 1.6 = 3.2954%

$$M = 15$$
, $\sum_{i=1}^{n} x_i = 324$

So, Avoithmetric mean:

$$AM = \bar{\lambda} = \frac{1}{n} \sum_{i=1}^{n} x_i = \frac{324}{15} = 21.60$$

Geometric mean:

$$C_7M = \overline{z}_{c_7} = (\overline{1}_{i=1}^7 z_1)^{\frac{1}{n}}$$

$$= (1.031 \times 10^{20})^{\frac{1}{15}} = 21.586$$

 $\frac{n!}{HM = 2H} = \frac{15}{21.58} = \frac{15}{0.6953} = \frac{2.158}{21.58}$ = 21.543Hermonic mean:

Median: Assending order of data

A=20,21,21,21,21,21,22,22,22,22,22,23.

50 median = 23

Mode: Maximum number of value that repete in the data set, whice is 22.