Name: Jawad Mohmmad

ID = 20-92006-1   Serial: 08

Age: 23, 22, 21, 22, 21, 20, 21, 21, 22, 22, 22, 22,
    21, 22, 22

$\Sigma Age = 324$

$n = 15$

Aritmetic Mean:

$$AM = \frac{\Sigma N}{n} = \frac{324}{15} = 21.6$$

Geometric mean:

$$GM = (A\pi n)^{\frac{1}{n}} = (23 \times 22 \times 21 \times 22 \times 21 \times 20 \times 21 \times 21 \times 22 \times 22$$
$$\times 22 \times 22 \times 21 \times 22 \times 22)^{\frac{1}{15}}$$

$$= (1.03 \times 10^{20})^{\frac{1}{15}}$$

$$= 21.59$$

Hermonic mean: $\frac{n}{\Sigma \frac{1}{x}}$

$$\therefore \Sigma \frac{1}{x} = \frac{73873}{106260}$$

$$= \frac{n}{\Sigma \frac{1}{x}} = \frac{15}{\frac{73873}{106260}} = 21.58$$

Median: 20, 21, 21, 21, 21, 21, 22, 22, 22, 22,
22, 22, 22, 22, 23

∴ Median = 22

Mode:

Mode = 22

Ч.		x	$\bar{x}$	$x_i - \bar{x}$	$|x_i - \bar{x}|$	$(x_i - \bar{x})^2$
1	17-35338-3	23	21.6	1.9	1.9	1.96
2	18-36264-1	22	21.6	0.4	0.4	0.16
3	19-41041-2	22	21.6	0.4	0.4	0.16
4	20-41259-1	21	21.6	-0.6	0.6	0.36
5	20-42006-1	20	21.6	-1.6	1.6	2.56
6	20-42042-1	21	21.6	-0.6	0.6	0.36
7	20-42102-1	21	21.6	-0.6	0.6	0.36
8	20-42439-1	22	21.6	0.4	0.4	0.16
9	20-42459-1	22	21.6	0.4	0.4	0.16
10	20-42073-1	22	21.6	0.4	0.4	0.16
11	19-36303-1	21	21.6	-0.6	0.6	0.36
12	20-42488-1	22	21.6	0.4	0.4	0.16
13	20-42621-1	21	21.6	-0.6	0.6	0.36
14	20-42668-1	22	21.6	0.4	0.4	0.16
15	20-42667-1 42669	22	21.6	0.4	0.4	0.16
→	total	324			9.2	7.6

Mean deviation:

$$MD: \frac{1}{n} \sum_{i=1}^{n} |x_i - \bar{x}) = \frac{9.2}{15} = 0.613$$

Varience:

$$6^2 = \frac{1}{n} \sum_{i=1}^{n} (x_i - \bar{x})^2 = \frac{7.6}{15} = 0.51$$

standard deviation:

$$SD = 6 = \sqrt{\text{varianee}} = \sqrt{0.510} \quad \cancel{= 6.783}$$

$$\cancel{= 6.748} = 0.719$$

coefficient variation:

$$CV = \frac{6}{x} \times 100\% \quad \cancel{\frac{0.748}{21.6} \times 100\%}$$

$$= \frac{0.719}{21.6} \times 100\% \quad \cancel{3.46\%}$$

$$= 3.30\%.$$