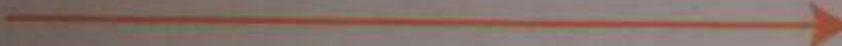


ESTADISTICA DESCRIPTIVA

"Ejercicios"

- 
- Abril de los Ángeles Trujillo Javier
 - Lic. En Nutrición
 - 3er. Cuatrimestre

Ejercicio 1

Realice los cálculos de media, mediana, moda, varianza, desviación estándar, para datos no agrupados.

40	56	45	56	50	50
55	60	55	67	49	59
60	63	54	50	55	58
63	50	50	46	48	60
47	50	65	49	40	64
40	49	62	58	44	72
55	50	78	65	50	70
50	54	84	62	45	68

$$n = 48$$

$$\sum f_i = 2670$$

$$\sum f_i^2 = 152840$$

$$* \bar{x} = \frac{\sum f_i}{n} = \frac{2670}{48} = 55.625 \leftarrow$$

$$* Me = \frac{n}{2}, \frac{n}{2} + 1 = \frac{48}{2}, \frac{48}{2} + 1 = 24, 25 \leftarrow$$

$$Me = \frac{55 + 55}{2} = 55 \leftarrow$$

$$* Mo = 50 \leftarrow$$

$$* S^2 = \frac{\sum f_i^2}{n-1} - \left(\frac{\sum f_i}{n} \right)^2 = \frac{152840}{47} - \left(\frac{2670}{48} \right)^2 = 91.94 \leftarrow$$

$$S = \sqrt{91.94} = 9.58 \leftarrow$$

Ejercicio 2

27	40	44	35	34	57	35	38
35	87	35	44	44	55	87	45
40	35	60	78	35	78	35	56
78	44	66	76	55	54	88	67
35	35	76	89	80	86	44	77
44	40	82	35	66	94	35	78
56	85	35	70	77	90	80	35

Media

$$\bar{x} = \frac{3211}{56} = 57.33$$

$$\text{Mediana} = \frac{56}{2}, \frac{56}{2} + 1 = 28, 29$$

$$\text{Moda} = 35$$

$$\text{Varianza} = s^2 = \frac{206323 - \frac{(3211)^2}{56}}{56-1}$$

$$s^2 = \frac{206323 - 194116.4}{55}$$

$$s^2 = 403.75$$

$$s = \sqrt{403.75} = 20.09$$