Mary Denny Cruz Jimenez

Ejemplo 1

Realice los cakulos de media, moda, varianza, desviacion, estandar.

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	total
410	432	403	453	381	501	2670
21528	23322	31675	26.075	18.291	31744	152,840

$EFi = 2670$

$EFi^2 = 152,840$

$\bar{x} = \frac{EFi}{n}$

$n = 48$ $\bar{x} = \frac{2670}{48}$

$\bar{x} = 55.625$ media = **55.625**

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

$\frac{n}{2}, \frac{n}{2}+1$

$\frac{48}{2}, \frac{48}{2}+1$

24, 25

$\frac{55+55}{2} = \frac{110}{2} = 55$

mediana = 55

moda = 50

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$\Sigma f_i = 2,670$

$\Sigma f_i^2 = 152\,840$

$$S^2 = \frac{\Sigma f_i 2 - \frac{(\Sigma f_i)^2}{n}}{n-1}$$

$$S^2 = \frac{1.52\,840 - \frac{(2,670)^2}{49\,n}}{4^{\cdot}7.}$$

$$\frac{152.840 - (2670\,n^2 \div 48)}{\div 47} = 4.321.25$$

$$\frac{4.321.25}{47} = 91.94$$

Varianza 91.94.

$S = \sqrt{S^2}$

$S = \sqrt{91.94} = 9.58$

Variacion Estanda. 9.58

2do Ejercicio.

27	98	49	35	34	57	35	38
35	87	35	44	44	55	87	45
40	35	60	76	35	78	35	56
78	44	66	76	56	54	88	67
35	35	76	89	80	86	44	77
44	40	82	36	66	94	35	78
56	88	35	70	77	90	86	35
315	366	398	427	391	514	404	396
15.935	23.5[illegible]	[illegible]	[illegible]	[illegible]	34.160	27.324	24.332.

$\Sigma f_i = 3,211$

$\Sigma f_i = 207.513$

$\bar{x} = \frac{\Sigma f_i}{n}$

$n = 56$

Mediana.

57.33.

Mon Donny Cruz Jimenez

6	60
6	66
7	66
	67
	70
	76
	77
	77
	78
	78
	78
	80
	82
	85
	86
	87
	88
	89
	90
	94

$\frac{n}{2} \cdot \frac{7}{2} = 11$

$\frac{56}{2}, \frac{56}{2} + 1$

28.29

$\frac{54 + 55}{2} = \frac{109}{2} = 54.5$

Mediana = 54

moda 35

$S = \sqrt{527}$

$S \sqrt{425.81} = 20.62$

Variacion Estanda 20.62

EFi = 3.211

EFi2 = 207.513

$S^2 = \frac{EF2 - \frac{(EF1)^2}{n}}{n-1}$

$S^2 = \frac{207,513 - \left(\frac{3.11}{n56}\right)^2}{55}$

$\frac{207,513 - (3,211\ n2 \div 56)}{\frac{0}{0}\ 55} = 23.316$

$\frac{23396}{55} = 425.38$ Varianza=425.38