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Act. De unidad 4 actividad 1

Licenciatura en psicología grupo

LPS19EMC0121-A

Primer cuatrimestre

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PASIÓN POR EDUCAR

Comitán, Chiapas

EJERCICIO 1

LÓPEZ GUILLEN FATIMA ABIGAIL

7 INTERVALOS

45	100	65	38	49	72	41	76
100	92	63	45	67	85	50	89
90	100	98	64	77	88	66	90
56	98	88	65	88	94	63	93
100	49	80	92	92	38	78	94
73	56	84	78	100	47	84	50
38	52	91	67	49	68	92	45
91	77	100	45	56	74	100	50

INTERVALOS	Fr	% Fr	Fra	% Fra	M	F MARCA	MARCA ²	F x MARCA ²
38-46	8	12.5	8	12.5	42	336	1764	14112
47-55	8	12.5	16	25	51	408	2601	20808
56-64	5	7.81	21	32.81	60	300	3600	18000
65-73	9	14.06	30	46.87	64	621	4761	42849
74-82	7	10.93	37	57.81	78	546	6084	42888
83-91	11	17.18	48	75	87	957	7569	83259
92-100	16	25	64	100	96	1536	9216	147452
						4704		364068

$$\bar{X} = \frac{\sum f_i \bar{x}_i}{n} = \frac{4704}{64} = 73.5 \text{ MEDIA}$$

$$M_o = L_i + \frac{f_i - f_{i-1}}{(f_i - f_{i-1}) + (f_i - f_{i+1})} \cdot d_i = \frac{92 + 16 - 11}{(16 - 11) + (16 - 0)} \cdot 8 = 93.40 \text{ MODA}$$

$$M_e = L_i + \frac{\frac{n}{2} - f_{i-1}}{f_i} \cdot d_i = \frac{74 + \frac{64}{2} - 29}{8} \cdot 8 = 77 \text{ MEDIANA}$$

$$S = \frac{\sum f_i x_i^2 - \frac{(\sum f_i x_i)^2}{n}}{n-1} = \frac{364068 - \frac{(4704)^2}{64}}{63} = 370.22 \text{ VARIANZA}$$

$$19.24 \text{ DEBVIACION}$$

EJERCICIO 2

SINTERVALOS

74	75	71	79	71	44
45	56	74	42	68	45
70	41	75	41	53	54
78	42	60	45	64	58
55	56	73	56	41	64
45	67	79	49	44	45
90	87	80	85	90	84

INTERVALOS	Fr	Fr%	Fra	% Fra	M1	M2	Fr x M1	Fr x M2
41-50	13	30.45	13	30.45	45.5	2070.25	591.5	69413.25
51-60	7	16.66	20	47.61	55.5	3080.25	388.5	21561.75
61-70	6	14.28	26	61.90	65.5	4240.25	393	25741.5
71-80	11	26.19	37	88.09	75.5	5700.25	830.5	62702.75
81-90	5	11.90	42	100	85.5	7310.25	427.5	26551.25
							<u>2631</u>	<u>206470.5</u>

$$\bar{X} = \frac{\sum f_i x_i}{n} = \frac{2631}{42} = 62.64 \text{ MEDIA}$$

$$M_0 = \frac{L_i + f_i - f_{i-1}}{(f_i - f_{i-1}) + (f_i - f_{i+1})} \cdot a_i = \frac{41 + 13 - 0}{(13 - 0) + (13 - 7)} \cdot 9 = 47.15 \text{ MODA}$$

$$M_e = \frac{L_i + \frac{n}{2} - f_{i-1}}{f_i} \cdot a_i = \frac{61 + 21 - 20}{6} \cdot 9 = 62.5 \text{ MEDIANA}$$

$$s^2 = \frac{\sum f_i x_i^2 - \frac{(\sum f_i x_i)^2}{n}}{n} = \frac{206470.5 - \frac{(2631)^2}{42}}{42} = 1183.01 \text{ VARIANZA}$$

34.89 DESVIACIÓN