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**Nombre del trabajo: EJERCICIOS**

**Materia: ESTADISTICA I**

**Grado: 1ER CUATRIMESTRE**

**Grupo: A**

Estefan Yocelin Aguilar Hernández.

415	100	63	38	49	72	41	76	Intervalo	f <sub>1</sub>	%f <sub>1</sub>	f <sub>10</sub>	%f <sub>10</sub>	x <sub>1</sub>	F <sub>1x1</sub>
100	92	63	45	67	85	50	89	38-46	8	12.5	8	12.5	42	336
92	100	98	69	77	88	66	90	47-55	8	12.5	16	25	51	408
26	98	88	65	88	94	63	93	56-64	5	7.81	21	32.81	60	300
100	49	80	92	92	38	78	94	65-73	9	14.06	30	46.87	69	621
73	56	89	78	100	47	84	50	83-91	7	10.93	37	57.81	78	596
38	52	91	67	49	68	92	45	92-100	11	17.18	48	75	87	957
91	77	100	45	56	74	100	50		16	25	64	100	96	1536
									<u>61</u>					<u>4704</u>

$$\sum \frac{f \cdot x^2}{64} = 73.5$$

$$ME: 32 - 30 \div 2 = x8 = 774 = 76.28$$

$$MO = 16 - 11 \div 2 = ((16 - 11) + (16 - 0)) = x8 = 102 = 9390$$

$$\text{Varianza: } \frac{369072 - \frac{(4704)^2}{64}}{63} = 370.28$$

Desviación estandar:

$$\sqrt{370.28} = 19.29$$

x <sup>2</sup>	f · x <sup>2</sup>
1764	14112
2601	20808
3600	18000
4761	42849
7569	42588
9216	83259
	<u>147456</u>
	369072.

Estadística Yacelin Aguilar Hernández

79	75	71	79	71	44
47	56	79	42	68	45
70	40	79	41	73	59
78	42	66	45	64	58
55	56	73	56	41	64
45	67	79	49	44	45
90	87	80	85	90	84

Intervalos
41-50
51-60
61-70
71-80
81-90

fi	%fi	Fio	%Fio	Xi'	Fixi
13	30.95	13	30.95	45.5	591.5
7	16.66	20	47.61	55.5	388.5
6	14.28	26	61.90	65.5	393
5	23.80	31	75.71	75.5	380.5
5	14.28	42	100	85.5	360.5
<b>Σ=42</b>					<b>2031</b>

x <sup>2</sup>
2070.25
3080.25
4290.25
5700.25
7210.25

f <sub>i</sub> · x <sup>2</sup>
26913.25
21561.75
25741.75
62702.75
36551.25
<b>173470.5</b>

$$\sum f_i x_i = \frac{3631}{42} = 86.45$$

$$Me = 13 - 20 = 7 = x9 = 151 = 42$$

$$MO = 13 - 0 = 13 = (13 - 0) + (13 - 7) =$$

$$x9 = 141 = 47.15$$

$$\text{Varianza: } 17476.5 - \frac{(2031)^2}{42}$$

$$= 211.19$$

Desviación estandar

$$\sqrt{211.19}$$

$$= 14.53$$