



NOMBRE DEL ALUMNO: CAROLINA AVENDAÑO REYES

NOMBRE DEL PROFESOR: JORGE ENRIQUE ALBORES AGUILAR

NOMBRE DEL TRABAJO: ACTIVIDAD 2

MATERIA: BIOESTADISTICA

GRADO: CUARTO CUATRIMESTRE

GRUPO: 4"A"

Comitán de Domínguez Chiapas

AVENDAÑO REYES CAROLINA 4 "A"

EJERCICIO 1

40	1600	56	3.136	65	2.025	86	3.136	50	2.500	50	2.500
55	3.025	58	3.364	55	3.025	67	4.489	49	2.401	59	3.481
60	3.600	63	3.969	54	2.916	50	2.500	55	3.025	58	3.364
63	3.969	50	2.500	50	2.500	46	2.116	48	2.304	60	3.600
47	2.209	50	2.500	65	4.225	48	2.304	40	1.600	64	4.096
40	1.600	49	2.401	62	3.844	58	3.364	44	1.936	72	5.184
55	3.025	50	2.500	78	6.084	65	4.225	58	2.500	70	4.900
50	2.500	54	2.916	84	7.056	62	3.844	45	2.025	68	4.624

$\Sigma f_i = 410$ $\Sigma f_i^2 = 432$ $\Sigma f_i = 493$ $\Sigma f_i = 455$ $\Sigma f_i = 381$ $\Sigma f_i = 507$
 $\Sigma f_i^2 = 21,528$ $\Sigma f_i^2 = 23,522$ $\Sigma f_i^2 = 31,695$ $\Sigma f_i^2 = 26,025$ $\Sigma f_i^2 = 18,291$ $\Sigma f_i^2 = 31,749$

$$\bar{x} = 2,670$$

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

$$n = 48$$

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

$$\text{Media: } \bar{x} = \frac{\Sigma f_i}{n}$$

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

$$\bar{x} = 55.625$$

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

$$s^2 = \frac{152,840 - \frac{(2670)^2}{48}}{47}$$

$$s^2 = \frac{152,840 - (2670^2 \div 48)}{47}$$

$$s^2 = \frac{\sqrt{91.94}}{47}$$

$$s^2 = 9.58$$

$$\text{Mo: } \underline{\underline{50}}$$

acer

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EJERCICIO 2

27, 729	40, 1,600	44, 1,936	35, 1,225	24, 1,156	57, 3,249	35, 1,225	38, 1,444
35, 1,225	47, 2,209	35, 1,225	44, 1,936	44, 1,936	58, 3,025	47, 2,209	35, 1,225
40, 1,600	35, 1,225	60, 3,600	28, 6,084	35, 1,225	28, 6,084	35, 1,225	46, 2,116
26, 6,084	44, 1,936	66, 4,356	26, 5,716	55, 3,025	54, 2,916	48, 2,304	47, 2,209
35, 1,225	35, 1,225	26, 5,716	44, 1,936	40, 6,400	40, 1,600	44, 1,936	47, 2,209
44, 1,936	40, 1,600	42, 6,724	35, 1,225	66, 4,356	48, 2,304	35, 1,225	28, 6,084
54, 2,916	45, 2,025	35, 1,225	24, 4,900	47, 2,209	40, 8,100	40, 6,400	35, 1,225
45, 2,025	45, 2,025	38, 1,444	44, 1,936	44, 1,936	40, 8,100	40, 6,400	35, 1,225
40, 1,600	35, 1,225	38, 1,444	44, 1,936	44, 1,936	40, 8,100	40, 6,400	35, 1,225

$E_{11}=315$ $E_{12}=326$ $E_{13}=398$ $E_{14}=427$ $E_{15}=391$ $E_{16}=314$ $E_{17}=404$ $E_{18}=396$
 $E_{19}=415,436$ $E_{20}=22,380$ $E_{21}=24,842$ $E_{22}=29,067$ $E_{23}=24,029$ $E_{24}=29,606$ $E_{25}=27,324$ $E_{26}=24,332$

$$\sum f_i = 3,211$$

$$\sum f_i^2 = 207,514$$

$$n = 56$$

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

$$\text{Media: } \bar{x} = \frac{\sum f_i}{n} \quad \bar{x} = \underline{57,33}$$

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

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

$$\text{Mediana: } \frac{n}{2}, \frac{n}{2} + 1$$

$$S^2 = \frac{207,514 - (3,211)^2}{55}$$

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

$$S^2 = 207,514 - (3,211^2 \div 56) = \div 55$$

$$28, 29$$

$$S^2 = \sqrt{425,41}$$

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

$$S^2 = 20,62$$

$$M_0: 35$$

AVENDARO REYES CAROLINA 4 "A"

EJERCICIO 3:

15	30	30	20	20	26
21	21	21	18	30	30
15	15	30	30	20	15
20	20	30	21	15	20
20	20	15	20	20	21
15	21	20	15	20	21

REGISTRO	F_i	F_{ia}	$\% F_i$	$\% F_{ia}$
15	9	9	25%	25%
20	9	18	25%	50%
21	7	25	19.44%	69.44%
26	4	29	11.11%	80.55%
30	7	36	19.44%	100%
	<u>36</u>			