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Nombre del trabajo: Frecuencia Simple

Materia: Estadística

Grado: 1

Grupo: A

Comitán de Domínguez Chiapas a 15 de Octubre de 2021.

EJERCICIO 1

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
265	262	309	268	237	324 = 1665

x^2

3,600	3,969	2,916	2,500	3,025	3,364
3,969	2,500	2,500	2,116	2,304	3,600
2,209	2,500	4,225	2,401	1600	4,096
1600	2,401	3,844	3,364	1,936	5,184
3,025	2,500	6,084	4,225	2,500	4,900
14403	13,870	19,569	14,606	11,365	21,144 = 94,957

40	40	44	46	47	48
49	49	50	50	50	50
50	50	54	55	55	58
58	60	60	62	63	63
64	65	65	70	72	78

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* MEDIA

$$\bar{X} = \frac{\sum f_i}{n}$$

$$\bar{X} = \frac{1665}{30} = 55.5$$

* MEDIANA

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

$$Me = \frac{30}{2}, \frac{30}{2} + 1$$

$$Me = 15, 16$$

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

* MODA

$$Mo = 50$$

* VARIANZA

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

$$S^2 = \frac{94,957 - \frac{(1665)^2}{30}}{29} = 87.91$$

* DESVIACIÓN ESTANDAR

$$S = \sqrt{S^2}$$

$$S = \sqrt{87.91}$$

$$S = 9.37$$

EJEACICIO 2

35	44	44	55	87	45
60	78	35	78	35	56
66	76	55	54	88	67
76	89	80	86	44	77
82	35	66	94	35	78
35	70	77	90	80	35
354	392	357	457	369	358

= 2,287

x^2

1225	1936	1936	3025	7,569	2025
3600	6,084	1225	6,084	1225	3,136
4,356	5,776	3,025	2916	7,744	4,489
5.776	7,921	6,400	7,396	1936	5,929
6,724	1225	4.356	8,836	1225	6,084
1225	4900	5,929	8100	6.400	1225
22,906	27842	22,871	36,357	26,099	22888

= 158,963

35	35	35	35	35	35
35	44	44	44	45	54
55	55	56	60	66	66
67	70	76	76	77	77
78	78	78	80	80	82
86	87	88	89	90	94

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* MEDIA

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

$$\bar{x} = \frac{2287}{36} = 63.52$$

* MEDIANA

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

$$Me = \frac{36}{2}, \frac{36}{2} + 1$$

$$Me = 18, 19$$

$$Me = \frac{66 + 67}{2} = 66.5$$

* MODA

$$Mo = 35$$

* VARIANZA

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

$$S^2 = \frac{158,963 - \frac{(2287)^2}{36}}{35} = 390.71$$

* DESVIACIÓN ESTANDAR

$$S = \sqrt{S^2}$$

$$S = \sqrt{390.71}$$

$$S = 19.76$$