



PASIÓN POR EDUCAR

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albores**

**Nombre del trabajo: Datos no
agrupados**

Materia: Probabilidad y estadística

Grado: 5to semestre

Grupo: A

Comitán de Domínguez Chiapas a 26 de septiembre del 2021

Hermelinda Urzquez Aguilan

Desviación y varianzas

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

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

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

$$\frac{152,840 - (2670^2 \div 48)}{47} = 4,321.25$$

$$\div 47 = 91.94$$

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

$$S = \sqrt{91.94} = 9.58$$

$$S = 9.58$$

- 40
- 40
- 40
- 44
- 45
- 45
- 46
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- 55
- 55
- 56

$$n = 48$$

$$f_i^2 = 152,840$$

$$P_i = 2670$$

mediana

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

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

$$(24, 25) = \frac{55+55}{2} = \frac{110}{2} = 55$$

media

$$\bar{X} = \frac{\sum f_i^2}{n}$$

$$\sum f_i = 2670$$

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

$$\bar{X} = \frac{2670}{48} = 55,62$$

$$Mo = 50$$

moda = 50

Hermelinda Vazquez Aguilar | Varianza y Desviación

27	40	44	35	34	57	75	38
35	87	35	44	44	55	87	45
40	35	60	78	35	78	35	56
78	44	66	76	55	54	88	67
35	75	76	89	80	86	44	77
44	40	82	35	66	94	35	78
56	85	35	70	77	90	80	35

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

$$S^2 = \frac{205,577 - \frac{(3211)^2}{56}}{55}$$

$$S^2 = 205,577 - \frac{(3211)^2}{56} = 21,460.56$$

$$\div 55 = 390.195$$

$$S = \sqrt{S^2} \quad S = \sqrt{390.195}$$

$$S = 19.75$$

27	54
34	(55)
35	(55)
35	56
35	56
35	57
35	60
35	66
35	66
35	67
35	70
35	76
35	76
35	77
35	77
38	78
40	78
40	78
40	78
44	80
44	80
44	82
44	85
44	86
44	87
45	87
	88
	84
	90
	94

$$\sum f_i = 3211$$

$$\sum f_i^2 = 205,577$$

$$n = 56$$

mediana

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

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

$$28,29 = \frac{55+55}{2} = \frac{110}{2} = 55$$

Me

media

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

$$\sum f_i = 3211 \quad \bar{X} = \frac{3211}{56} = 57.33$$

$$\bar{X} = 57.33$$

Moda

$$Mo = 35$$

$$\sum f_i = 3211$$