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**Nombre del trabajo: Datos no
agrupados**

Materia: Estadística

Grado: 1°

Grupo: LPS19EMC0120-A

Ejercicio 1

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

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Unidad II

Ejercicio ①

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

$$\sum y_i = 2670$$

$$\sqrt{\sum y_i^2} = 116,522$$

$$M_0 = 50$$

$$\bar{x} = \frac{\sum y_i}{n} = \frac{2670}{48} = 55.625$$

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

$$s^2 = \frac{116,522 - \frac{(2670)^2}{48}}{47}$$

$$s^2 = \frac{116,522 - 148,518.75}{47} = 3,157.49$$

$$s = 56.19$$

Ejercicio 2

27	40	44	35	34	57	35	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	35	76	89	80	86	44	77
44	40	82	35	66	94	35	78
56	85	35	70	77	90	80	35

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Unidad II

Ejercicio ②

27, 34, 35, 35, 35, 35, 35, 35, 35, 35, 35, 35, 35, 35
 35, 35, 35, 38, 40, 40, 40, 44, 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, 80, 80, 82, 85, 86, 88, 89, 90, 94

$$\sum y_i = 3211$$

$$M_0 = 35$$

$$\sqrt{\sum y_i^2} = 207.512$$

$$\bar{x} = \frac{\sum y_i}{n} = \frac{3211}{56} = 57.33$$

$$M_e = \frac{45 + 54}{2} = \frac{99}{2} = 49.5$$

$$s^2 = \frac{207.512 - \frac{(3211)^2}{56}}{55}$$

$$s^2 = \frac{207.512 - 184.116.44}{55} = 3.343.79$$

$$s = 57.82$$