



Candelana Elizabeth González Gómez

4° A

Lic. Enfermería general

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Bioestadística

Datos no agrupados
(ejercicios)

Comitán de Domínguez, Chiapas a 16 de
Octubre de 2020.

Datos no agrupados

EJERCICIO 1

| | | |
|----|----|----|
| 40 | 56 | 45 |
| 55 | 60 | 55 |
| 60 | 63 | 54 |
| 63 | 50 | 50 |
| 47 | 50 | 65 |
| 40 | 49 | 62 |
| 55 | 50 | 78 |
| 50 | 54 | 84 |
| 56 | 50 | 50 |
| 67 | 49 | 59 |
| 50 | 55 | 58 |
| 46 | 48 | 60 |
| 49 | 40 | 69 |
| 58 | 44 | 72 |
| 65 | 50 | 70 |
| 62 | 45 | 68 |

EJERCICIO 2

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

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4^oA

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.

➤ MEDIA

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

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

$$X = 55.62$$

➤ MEDIANA

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

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

$$ME = 24, 24 + 1$$

$$ME = 24, 25$$

$$ME = 55, 55$$

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

$$ME = 55$$

➤ MODA

Valor que más se repite.

$$Mo = 50$$

$$\sum y_i = 2670$$

$$\sum \bar{y}_i^2 = 152840$$

➤ VARIANZA

$$s^2 = \frac{\sum \bar{y}_i^2 - \frac{\sum y_i^2}{n}}{n-1}$$

$$s^2 = \frac{152840 - \frac{2670^2}{48}}{48-1}$$

$$s^2 = \frac{152840 - 7128900}{47}$$

$$s^2 = \frac{152840 - 148518.75}{47}$$

$$s^2 = 91.94$$

➤ DESVIACIÓN ESTÁNDAR

$$s = \sqrt{\frac{\sum \bar{y}_i^2 - \frac{\sum y_i^2}{n}}{n-1}}$$

$$s = \sqrt{91.94}$$

$$s = 9.58$$

EJERCICIO 2

27, 34, 35, 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.

► MEDIA

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

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

$\bar{X} = 57.33$

► MEDIANA

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

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

$$ME = 28, 28 + 1$$

$$ME = 28, 29$$

$$ME = 55, 55$$

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

$ME = 55$

► MODA

Valor que más se repite.

$Mo = 35$

$$\sum y_i = 3211$$

$$\sum \bar{y}_i^2 = 207513$$

► VARIANZA

$$s^2 = \frac{\sum \bar{y}_i^2 - \frac{\sum y_i^2}{n}}{n-1}$$

$$s^2 = \frac{207513 - \frac{10310521}{56}}{56-1}$$

$$s^2 = \frac{207513 - 184116.44}{55}$$

$s^2 = 425.39$

► DESVIACIÓN ESTÁNDAR

$$s = \sqrt{\frac{\sum \bar{y}_i^2 - \frac{\sum y_i^2}{n}}{n-1}}$$

$$s = \sqrt{425.39}$$

$s = 20.62$