EJERCICIO 1 "Datos no agrupados"

Keila Briceño

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.

$$\Sigma y_i = 2670 \qquad \Sigma y_i^2 = 152840 \qquad n = 48$$

Media $= \bar{x} = \dfrac{\Sigma y_i}{n}$

$$\bar{x} = \frac{2670}{48} = 65.625 \text{ //}$$

Mediana $= me = \dfrac{n}{2}, \dfrac{n}{2}+1$

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

$$me = 24, 25$$

$$me = 55, 55$$

$$me = \frac{55 + 55}{2}$$

$$me = 55 \text{ //}$$

Moda

$$mo = 50 \text{ //}$$

Varianza $= \dfrac{\Sigma y_i^2 - \dfrac{(\Sigma y_i)^2}{n}}{n-1}$

$$s^2 = \frac{152840 - \dfrac{(2670)^2}{48}}{47}$$

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

$$s^2 = 91.94 \text{ //}$$

Desviación estandar

$$s = \sqrt{91.94}$$

$$s = 9.58 \text{ //}$$

Ejercicio 2 "Datos no agrupados"

Keila Briceño.

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.

$\sum yi = 3211$ $\sum yi^2 = 207513$ $n = 56$

Media $= \bar{x} = \dfrac{\sum yi}{n}$

$\bar{x} = \dfrac{3211}{56} = \underline{57.33}$ //

Mediana $= \dfrac{n}{2}, \dfrac{n}{2} + 1$

$Me = \dfrac{56}{2}, \dfrac{56}{2} + 1$

$Me = 28, 29$

$Mc = 55, 55$

$me = \dfrac{55 + 55}{2} = \underline{55}$ //

Moda

$Mo = \underline{35}$ //

Varianza $= \dfrac{\sum yi^2 - \dfrac{(\sum yi)^2}{n}}{n-1}$

$s^2 = \dfrac{207513 - \dfrac{(3211)^2}{56}}{55}$

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

$s^2 = \underline{425.39}$ //

Desviación Estandar

$s = \sqrt{425.39}$

$s = \underline{20.62}$ //