

Los pesos en kg de ocho alumnos de bachillerato son los siguientes 52, 60, 58, 54, 72, 65, 55 y 76. Obtener Promedio de pesos de los alumnos, mediana, moda, rango, Varianza y desviación estandar.

$$\text{Media aritmetica: } 492 \div 8 = 61.5$$

$$\text{Mediana: } 59.$$

$$\text{Moda: Sin moda.}$$

$$\text{Rango: } 76 - 52 = 24$$

$$\text{Varianza: } 76.56$$

$$\text{Desviación estandar: } 8.74$$

$$M: 52, 54, 55, 58, 60, 65, 72, 76$$

$$s^2 = \frac{(52-61.5)^2 + (60-61.5)^2 + (58-61.5)^2 + (54-61.5)^2 + (72-61.5)^2 + (65-61.5)^2 + (55-61.5)^2 + (76-61.5)^2}{8-1}$$

$$s^2 = \frac{(-9.5)^2 + (-1.5)^2 + (-3.5)^2 + (-7.5)^2 + (10.5)^2 + (3.5)^2 + (-6.5)^2 + (14.5)^2}{7}$$

$$s^2 = \frac{90.25 + 2.25 + 12.25 + 56.25 + 110.25 + 12.25 + 42.25 + 210.25}{7}$$

$$s^2 = \frac{536}{7} = 76.56$$

$$s = \sqrt{76.56} = 8.74$$

$$s = 8.74$$