

José Emmanuel Gómez Mejía

Estadística

1º cuatrimestre

Se tienen los siguientes datos de los años en que los Parejas duran casados, antes de divorciarse.

Nº 2, 7, 14, 22, 33, 26, 15, 20,
27, 8, 10, 33, 22, 40, 12, 17,
19, 24, 7, 5, 14, 32, 15, 28,
12.

$$\bar{X} = \frac{2, 7, 14, 22, 33, 26, 15, 20, 27, 8, 10, 33, 22, 40, 12, 17, 19, 24, 7, 5, 14, 32, 15, 28, 12}{25} = 464 \div 25$$

$$\bar{X} = \frac{464}{25} = 18.56 \text{ años}$$

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M = 2, 5, 7, 7, 8, 10, 12, 12,
14, 14, 15, 15, 17, 19, 20, 22,
22, 24, 26, 27, 28, 32, 33, 33,
40.

$$M = 17 \text{ años}$$

$$m = 7, 12, 14, 15, 22, 33 \text{ años}$$

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1 = cuatrimestre

$$s^2 = (2-18.56)^2 + (7-18.56)^2 + (14-18.56)^2 + (22-18.56)^2 + (33-18.56)^2 + (26-18.56)^2 + (15-18.56)^2 + (20-18.56)^2 + (27-18.56)^2 + (8-18.56)^2 + (10-18.56)^2 + (33-18.56)^2 + (22-18.56)^2 + (40-18.56)^2 + (12-18.56)^2 + (17-18.56)^2 + (19-18.56)^2 + (24-18.56)^2 + (7-18.56)^2 + (5-18.56)^2 + (14-18.56)^2 + (32-18.56)^2 + (15-18.56)^2 + (28-18.56)^2 + (12-18.56)^2$$

$$s^2 = \frac{2,394.16}{25-1} - \frac{2,394.16}{24} = \underline{99.75}$$

$$s = \sqrt{99.75} = 9.98$$

$$R = 40 - 2 = 38$$

$$C.V = \frac{9.98}{18.56} \times 100$$

$$C.V = 53.77\%$$