

## » MEDIDAS DE DISPERSIÓN «

08/08/2022

**RANGO**  $R = 4348 - 1355 = 2993$  //

**VARIANZA**

$$s^2 = \frac{(1355 - 3038.2)^2 + (3234 - 3038.2)^2 + (2154 - 3038.2)^2 + (4256 - 3038.2)^2 + (2167 - 3038.2)^2 + (4257 - 3038.2)^2 + (1987 - 3038.2)^2 + (4348 - 3038.2)^2 + (2458 - 3038.2)^2 + (4256 - 3038.2)^2}{10}$$

$$s^2 = \frac{2833162.24 + 1105021.44 + 781809.64 + 758989.44 + 336632.04 + 38337.64 + 1483036.84 + 1483036.84 + 1485473.44 + 1487912.04}{10}$$

**DESVIACIÓN TÍPICA**

$$s^2 = \frac{11793411.6}{10} = 1179,341.16 //$$

$$s = \sqrt{1179,341.16}$$

$$s = 1085.97 //$$

**COEFICIENTE DE VARIACIÓN**

$$CV = \frac{1085.97}{3038.2} = 0.3574 \times 100 = 35.74\% //$$

# >> MEDIDAS DE DISPERSION <<<

08/08/2022

$$\text{RANGO } R = 49.079 - 10.124 = 38.955 //$$

$$\bar{x} = 32.48$$

## VARIANZA

$$\begin{aligned} & (44.347 - 32.48)^2 + (12.445 - 32.48)^2 + (26.880 - 32.48)^2 + (23.366 - 32.48)^2 \\ & + (42.464 - 32.48)^2 + (15.480 - 32.48)^2 + (21.562 - 32.48)^2 + (11.625 - 32.48)^2 \\ & + (39.476 - 32.48)^2 + (39.402 - 32.48)^2 + (47.699 - 32.48)^2 + (44.315 - 32.48)^2 \\ & + (29.581 - 32.48)^2 + (44.320 - 32.48)^2 + (35.264 - 32.48)^2 + (10.124 - 32.48)^2 \\ & + (43.520 - 32.48)^2 + (26.360 - 32.48)^2 + (19.534 - 32.48)^2 + (30.755 - 32.48)^2 \\ & + (37.327 - 32.48)^2 + (15.832 - 32.48)^2 + (33.919 - 32.48)^2 + (29.498 - 32.48)^2 \\ & + (46.136 - 32.48)^2 + (18.007 - 32.48)^2 + (36.339 - 32.48)^2 + (27.696 - 32.48)^2 \\ & + (47.413 - 32.48)^2 + (47.636 - 32.48)^2 + (20.978 - 32.48)^2 + (49.079 - 32.48)^2 \\ & + (40.668 - 32.48)^2 + (45.932 - 32.48)^2 + (40.454 - 32.48)^2 + (46.132 - 32.48)^2 \\ & + (35.054 - 32.48)^2 + (11.906 - 32.48)^2 + (22.532 - 32.48)^2 + (43.045 - 32.48)^2 \\ & + (45.074 - 32.48)^2 + (16.505 - 32.48)^2 + (27.336 - 32.48)^2 + (37.831 - 32.48)^2 \\ & + (29.757 - 32.48)^2 + (37.765 - 32.48)^2 + (27.237 - 32.48)^2 + (38.601 - 32.48)^2 \end{aligned}$$

48

$$\begin{aligned} & 140.825 + 401.401 + 31.36 + 83.064 + 99.680 + 289 + 119.202 + 434.931 + 49.224 + 47.914 \\ & + 231.617 + 140.067 + 8.404 + 140.185 + 7.75 + 499.79 + 121.881 + 37.454 + 167.598 \\ & + 2.975 + 23.493 + 277.135 + 2.070 + 8.892 + 186.486 + 209.467 + 14.891 + 22.886 \\ & + 222.994 + 229.704 + 132.296 + 275.526 + 67.043 + 180.956 + 63.584 + 186.377 \\ & + 6.625 + 423.289 + 98.962 + 111.619 + 158.608 + 255.200 + 26.460 + 28.633 + 7.414 \\ & + 27.931 + 104.919 + 37.466 \end{aligned}$$

48

$$\sigma^2 = \frac{6445.268}{48} = 134.276417 //$$

## DESVIACIÓN TÍPICA

$$\sigma = \sqrt{134.276417} = 11.587 //$$

## COEFICIENTE DE VARIACIÓN

$$CV = \frac{11.587}{32.48} = 0.3567 \times 100 = 35.67\% //$$