

## RESULTADOS REGRESIÓN LINEAL SIMPLE

1) X = Área Sembrada  
Y = PBI

$$\begin{aligned} \Sigma X &= 18,3435 & \Sigma x^2 &= 71,59062 \\ \Sigma Y &= 40,872 & \Sigma Y^2 &= 334,3055 \\ n &= 5 & \Sigma XY &= 150,7258 \\ \bar{X} &= 3,6687 & b1 &= 0,181345 \\ \bar{Y} &= 8,1744 & b0 &= 7,5091 \\ S_{b1} &= 0,068386 & r &= 0,83723 \\ S_{xy} &= 0,141707 & r^2 &= 0,700954 \end{aligned}$$

2) X = Relación Precios  
Y = Ventas

$$\begin{aligned} \Sigma X &= 3,93 & \Sigma x^2 &= 0,786 \\ \Sigma Y &= 178,2 & \Sigma Y^2 &= 6399,16 \\ n &= 5 & \Sigma XY &= 141,557 \\ \bar{X} &= 0,786 & b1 &= 25,06384409 \\ \bar{Y} &= 35,64 & b0 &= 15,93981855 \\ S_{b1} &= 7,74892 & r &= 0,881561137 \\ S_{xy} &= 1,89048 & r^2 &= 0,777150038 \end{aligned}$$

3) X = Presentaciones  
Y = Tiempo

$$\begin{aligned} \Sigma X &= 45 & \Sigma x^2 &= 3 \\ \Sigma Y &= 132 & \Sigma Y^2 &= 1204 \\ n &= 15 & \Sigma XY &= 411 \\ \bar{X} &= 3 & b1 &= 1,5 \\ \bar{Y} &= 8,8 & b0 &= 4,3 \\ S_{b1} &= 0,39125 & r &= 0,728464397 \\ S_{xy} &= 1,23724 & r^2 &= 0,530660377 \end{aligned}$$

4) X = Bolsa  
Y = Fondo

$$\begin{aligned} \Sigma X &= 34,4 & \Sigma x^2 &= 3,44 \\ \Sigma Y &= 65,9 & \Sigma Y^2 &= 2530,19 \\ n &= 10 & \Sigma XY &= 1603,82 \\ \bar{X} &= 3,44 & b1 &= 0,883607824 \\ \bar{Y} &= 6,59 & b0 &= 3,550389086 \\ S_{b1} &= 0,26553 & r &= 0,761956343 \\ S_{xy} &= 10,4826 & r^2 &= 0,580577468 \end{aligned}$$

5) X = Pronóstico de temperatura media  
Y = Demanda de Gas

$$\begin{aligned} \Sigma X &= 97 & \Sigma x^2 &= 1169 \\ \Sigma Y &= 21,16 & \Sigma Y^2 &= 48,68 \\ n &= 10 & \Sigma XY &= 180,9326 \\ \bar{X} &= 9,7 & b1 &= -0,106617 \\ \bar{Y} &= 2,116 & b0 &= 3,150188 \\ S_{b1} &= 0,02682 & r &= -0,814808 \\ S_{xy} &= 0,405057 & r^2 &= 0,663912 \end{aligned}$$

6) X = Publicidad  
Y = Ventas

$$\begin{aligned} \Sigma X &= 34,9 & \Sigma x^2 &= 5,816666667 \\ \Sigma Y &= 419 & \Sigma Y^2 &= 29485 \\ n &= 6 & \Sigma XY &= 2467,5 \\ \bar{X} &= 5,81667 & b1 &= 4,615579802 \\ \bar{Y} &= 69,8333 & b0 &= 42,98604415 \\ S_{b1} &= 1,79766 & r &= 0,788902817 \\ S_{xy} &= 4,60718 & r^2 &= 0,622367655 \end{aligned}$$

7) X = Distancia  
Y = Costo

$$\begin{aligned} \Sigma X &= 128 & \Sigma x^2 &= 14,22222222 \\ \Sigma Y &= 897 & \Sigma Y^2 &= 98681 \\ n &= 9 & \Sigma XY &= 14452 \\ \bar{X} &= 14,2222 & b1 &= 5,270214236 \\ \bar{Y} &= 99,6667 & b0 &= 24,71250864 \\ S_{b1} &= 0,39362 & r &= 0,981030005 \\ S_{xy} &= 7,05836 & r^2 &= 0,96241987 \end{aligned}$$

8) X = Exhibidores  
Y = Ventas

$$\begin{aligned} \Sigma X &= 72 & \Sigma x^2 &= 6 \\ \Sigma Y &= 6185 & \Sigma Y^2 &= 3300627 \\ n &= 12 & \Sigma XY &= 39600 \\ \bar{X} &= 6 & b1 &= 34,58333333 \\ \bar{Y} &= 515,417 & b0 &= 307,9166667 \\ S_{b1} &= 6,08532 & r &= 0,87382978 \\ S_{xy} &= 51,6357 & r^2 &= 0,763578485 \end{aligned}$$

9) X = Consumo de energía  
Y = PBI

$$\begin{aligned} \Sigma X &= 117446 & \Sigma x^2 &= 9787,166667 \\ \Sigma Y &= 33367 & \Sigma Y^2 &= 124680493 \\ n &= 12 & \Sigma XY &= 463148863 \\ \bar{X} &= 9787,17 & b1 &= 0,195566934 \\ \bar{Y} &= 2780,58 & b0 &= 866,5371578 \\ S_{b1} &= 0,02726 & r &= 0,915042875 \\ S_{xy} &= 720,427 & r^2 &= 0,837303463 \end{aligned}$$

10) X = Tasa de interés  
Y = Licencias construcción

$$\begin{aligned} \Sigma X &= 63,5 & \Sigma x^2 &= 7,9375 \\ \Sigma Y &= 15426 & \Sigma Y^2 &= 33143750 \\ n &= 8 & \Sigma XY &= 115464 \\ \bar{X} &= 7,9375 & b1 &= -430,358382 \\ \bar{Y} &= 1928,25 & b0 &= 5344,219653 \\ S_{b1} &= 63,6882 & r &= -0,94013697 \\ S_{xy} &= 256,488 & r^2 &= 0,88385753 \end{aligned}$$