



**ESTADISTICA DESCRIPTIVA**

**EJERCISIO 1**

**UNIDAD IV**

**Alumno: LIMBERG ALBORES MONTOYA**

**Licenciatura en Administración y Estrategias de**

**Negocios**

Periodo X	Demanda Y	X <sup>2</sup>	Y <sup>2</sup>	X · Y
1	400	1	160,000	400
2	450	4	202,500	900
3	600	9	360,000	1,800
4	680	16	462,400	2,720
5	780	25	608,400	3,900
6	6,819	30	46,498.761	40,914
$\Sigma = 15$	2,910	55	1,793,300	9,720
21	9,729	85	1,839,798.761	50,634

$$b = \frac{N \cdot \sum x \cdot y - \sum x \cdot \sum y}{N \cdot \sum x^2 - (\sum x)^2}$$

$$b = \frac{5(9,720) - (15)(2,910)}{5(55) - (15)^2}$$

$$b = \frac{48,600 - 43,650}{275 - 225}$$

$$b = \frac{4,950}{50}$$

$$b = 99 \neq$$

$$a = \frac{\sum y - b \cdot \sum x}{N}$$

$$a = \frac{2,910 - (99)(15)}{5}$$

$$a = \frac{2,910 - 1,485}{5}$$

$$a = \frac{1,425}{5}$$

$$a = 285 \neq$$

$$y = a + b \cdot x$$

$$y = 285 + (99)(6)$$

$$y_{(6)} = 285 + 6,534$$

$$y_{(6)} = 6,819 \neq$$

Limberg Alboros Mantoya