



ESTADISTICA DESCRIPTIVA

EXAMEN

UNIDAD IV

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Licenciatura en Administración y Estrategias de
Negocios

Periode x	Demanda y	x^2	y^2	$x \cdot y$
1	1300	1	1,690,000	1300
2	1250	4	1,562,500	2500
3	1400	9	1,960,000	4200
4	1370	16	1,876,900	5480
5	1450	25	2,102,500	7250
6	1480	36	2,190,400	8880
7	1500	49	2,250,000	10500
8	1550	64	2,402,500	12400
36	11,300	204	16,034,800	52,510

Limberg Alboras Mantaya

Timberge Albaros
Nicolona

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

$$b = \frac{(8)(57,510) - (36)(11,300)}{(8)(204) - (36)^2}$$

$$b = \frac{204,080 - 406,800}{1,632 - 1,296}$$

$$b = \frac{202,720}{336}$$

$$b = 603.333$$

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

$$a = \frac{(11,300) - (603.333)(36)}{8}$$

$$a = \frac{11,300 - 21,719.988}{8}$$

$$a = \frac{10,419.988}{8}$$

$$a = 1,302.4985$$

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

$$y = (1,302.4985) + (603.333)(4)$$

$$y = 1,302.4985 + 5,429.992$$

$$y_{(4)} = 6,732.4955$$