

UNIVERSIDAD ERSIDAD DEL SURESTE

NOMBRE DE LAUMNO

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NOMBRE DEL DOCENTE

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TEMA

Factor de correlación

MATERIA

bioestadística

FECHA DE ENTREGA

31 /11/ 2024

Estadística	y	x _y	x ²	y ²
186	85	15,810	24,596	7225
189	85	16,065	35,721	7225
190	86	16,340	36,100	7,396
192	90	17,280	36,864	8100
193	87	17,280	37,249	7569
193	91	16,791	37,249	8281
198	93	17,563	39,204	8,649
201	103	18,414	40,401	10,609
203	100	20,703	41,209	10,000
205	101	20,703	42,025	10,000
<u>1950</u>	<u>921</u>	<u>20,300</u>	<u>380,618</u>	<u>85,255</u>
		179,971		

3)

$$S_{cx} = \sum x^2 - \frac{(\sum x)^2}{n} = 380,618 - \frac{(1950)^2}{10} =$$

$$S_{cx} = 380,618 - 380,250$$

$$S_{cx} = \underline{368/}$$

$$S_{cy} = \sum y^2 - \frac{(\sum y)^2}{n} = 85,255 - \frac{(921)^2}{10} =$$

$$S_{cy} = 88,255 - 84,824.1$$

$$S_{cy} = \underline{430.9/}$$

$$S_{cxy} = \sum xy - \frac{(\sum x)(\sum y)}{n} = 179,971 - \frac{(1950)(921)}{10}$$

$$S_{cy} = 179,971 - 179,595$$

$$S_{cy} = \underline{376/}$$

$$r = \frac{SC_{xy}}{(SC_x)(SC_y)} = \frac{376}{(368)(430.9)} = \frac{376}{\sqrt{158,571.2}}$$

$$r = \frac{376}{398.20} = 0.94 \quad \text{fuerte y positivo}$$

$$\sum CX = 368$$

$$SCY = 430.9$$

$$SC_{xy} = 376$$

$$1 - b_1 = SC_{xy} = 376 = 1.02$$

$$2 = \bar{x} \ 195 \quad \bar{y} = 92.1$$

$$3 - b_0 = \bar{y} - b_1 \times \bar{x} = 92.1 - 1.02 \times 195 = 92.1 - 198.9$$

$$b_0 = -106.8$$

$$b_1 = 1.02$$

$$b_0 = 106.8$$

$$MRL = b_0 + b_1 \times \hat{x}$$

$$MRL_y = -106.8 + 1.02 \times 206 = -106.8 + 206$$

↑ asignar un valor de la tabla

$$RRL_y = 99.2$$

$$MRL \hat{x} = \frac{\hat{y} - b_0}{b_1} = \frac{89 - (-106.8)}{1.02} = \frac{195.8}{1.02}$$

$$MRL \hat{x} \ 191.96$$