

Tarea: 3

Calcule el coeficiente de correlación

X	Y	X-X	Y-Y	(X-X) ²	(Y-Y) ²	(X-X)(Y-Y)
10	2	-30	-3	900	9	90
20	3	-20	-2	400	4	40
30	4	-10	-1	100	1	10
40	5	0	0	0	0	0
50	6	10	1	100	1	10
60	7	20	2	400	4	40
70	8	30	3	900	9	90
$\Sigma = 280$		$\Sigma = 35$		$\Sigma = 2,800$	$\Sigma = 28$	$\Sigma = 280$

$$s = 280$$

$$s = 280$$

$$s = 100 //$$

$$(6)(2,760)(2-6)$$

$$279.94$$

$$\bar{X} = \frac{280}{7} = 40$$

$$s = \sqrt{\frac{\Sigma(X-X)^2}{n-1}}$$

$$s_x = \sqrt{\frac{2,800}{7-1}}$$

$$s_y = \sqrt{\frac{28}{6}}$$

$$10 - 40 = -30$$

$$s_x = \sqrt{466.68}$$

$$s_x = \sqrt{22.60}$$

$$\frac{1-35-5}{7}$$

$$s_y = \sqrt{\frac{\Sigma(Y-Y)^2}{n-1}}$$

$$s_x = \sqrt{28}$$

$$s_y = \sqrt{\frac{28}{6}}$$

$$2 - 5 = -3$$

$$s_x = \sqrt{4.61}$$

$$s_y = 2.16$$

X	Y	X-X	Y-Y	(X-X) ²	(Y-Y) ²	(X-X)(Y-Y)
10	4	-40	-3.89	1,600	15.13	155.6
20	8	-30	3.11	900	9.67	93.3
30	3	-20	-1.89	400	3.57	31.8
40	6	-10	1.11	100	1.23	11.1
50	9	0	4.11	0	16.89	0
60	1	10	-3.89	100	19.13	38.9
70	5	20	0.11	400	0.01	2.2
80	9	30	4.11	900	16.89	123.3
90	2	40	-2.89	1,600	8.35	115.6
$\Sigma=450$	$\Sigma=44$			6,000	86.81	511.8

$$\Sigma=450 \quad \Sigma=44$$

$$\bar{X} = 511.8$$

$$(8(21.39)(3.30))$$

$$S_x = \sqrt{\frac{\Sigma(X-X)^2}{n-1}} \quad S_x = \sqrt{\frac{6,000}{9-1}} \quad S_x = \sqrt{\frac{6,000}{8}}$$

$$\bar{X} = 50 \quad S_x = \sqrt{750} \quad S_x = \sqrt{21.29}$$

$$10-50=-40 \quad S_y = \sqrt{\frac{\Sigma(Y-Y)^2}{n-1}} \quad S_y = \sqrt{\frac{86.81}{8}}$$

$$\bar{X} = 44 \quad S_y = \sqrt{10.86} \quad S_y = \sqrt{3.30}$$

$$S_x = 21.39 \quad S_y = 8.30$$

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