

Cálculo del Coeficiente de correlación de Pearson entre las variables talla y Peso de 20 niños Varones.

4	54	-12.35	-3.6	44.46
11	83	16.65	3.4	56.61
7	64	-2.35	-0.6	1.41
7	66	-0.35	-0.6	0.21
6	61	-5.35	-1.6	8.56
8	66	-0.35	0.4	-0.14
5	57	-9.35	-2.6	24.31
11	81	14.65	3.4	49.81
5	59	-7.35	-2.6	19.11
9	71	4.65	1.4	6.51
6	62	-4.35	-1.6	6.96
10	75	8.65	2.4	20.76

$$X \text{ (media de } \bar{X} = 66.35) \quad \Sigma 290.8$$

$$Y \text{ (media de } \bar{Y} = 7.6)$$

$$\text{Covarianza} = \frac{\sum (\bar{x} - X) * (\bar{y} - Y)}{n - 1} = \frac{290.8}{19} = 15.30$$

$$r = \frac{\text{Covarianza}}{S_x * S_y} = \frac{15.30}{8.087 * 2.137} = 0.885$$

$$S_x = 8.087$$

$$S_y = 2.137$$

$$\text{Error estándar de } r = \sqrt{\frac{1 - 0.885^2}{20 - 2}} = 0.109$$