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**Nombre del trabajo: tabla de  
frecuencia**

**Materia: estadística**

**Grado: 1**

**Grupo: A**



Felmi Dtsaiti Hernandez Garcia

Y	X	$x - \bar{x}$	$y - \bar{y}$	$(x - \bar{x}) \cdot (y - \bar{y})$
13	80	3.93	0.29	1.13
15	90	13.93	2.29	31.89
10	75	-1.07	-2.71	2.89
8	60	-16.07	-4.71	75.68
15	91	14.93	2.29	34.18
14	86	9.93	1.29	12.80
16	92	15.93	3.29	52.40
13	65	-11.07	0.29	-3.21
14	68	-8.07	1.29	-10.41
13	63	-13.07	0.29	-3.79
12	78	1.93	-0.71	-1.37
14	67	-9.07	1.29	-11.70
10	70	-6.07	-2.71	16.44
11	80	3.93	-1.71	-6.72
12.71	76.07			190.21

$$\text{Covarianza} = \frac{190.21}{13}$$

$$\text{Covarianza} = 14.63$$

$$r = \frac{\text{covarianza}}{s^x \cdot s^y} = \frac{14.63}{\dots} = 0.59$$

$$\text{Error de estandar} = 0.23$$



10.85

$$F_{IX} = 1065$$

$$F_{I^2} = 82557$$

$$\sum_{i=1}^n (y_i - \bar{y})^2$$

$$F_{IY} = 1728$$

$$(S_{-Y})^2$$

$$F_{I^2} = 2330$$

$$S^2 = 118.53$$

$$0.2$$

$$\text{Varianza} = 2330 - \frac{(1728)^2}{n}$$

$$S^2 = 10.88$$

$$20.5$$

$$\frac{14}{13}$$

$$\text{Varianza} = 5.19$$

$$S^2 = \sqrt{5.19}$$

$$S^2 = 2.26$$

55.05 (5/11/14)

Y  
13  
15  
10  
8  
15  
14  
16  
13  
14  
13  
12  
11



Kellmi Davaili Hernández García

Y	X	$(X - \bar{X})$	$(Y - \bar{Y})$	$(X - \bar{X}) \cdot (Y - \bar{Y})$	Covarianza = 17.95
9	67	-2.23	-6.15	13.71	
8	63	-3.23	-10.15	32.78	
12	90	0.77	16.85	12.97	
13	92	1.77	18.85	33.36	
10	70	-1.23	-3.15	3.87	
10	71	-1.23	-2.15	2.64	
13	78	1.77	4.85	8.58	
11	72	-0.23	-1.15	0.26	
15	85	3.77	11.85	44.67	
12	65	0.77	-8.15	-6.27	
14	80	2.77	6.85	18.97	
10	60	-1.23	-13.15	16.17	
9	58	-2.23	-15.15	33.78	
1123	7315			215.49	
	951				

$$R = \frac{\text{Covarianza}}{S_X \cdot S_Y} = \frac{17.95}{2.12 \times 11.08} = 0.76$$

$$G_{max} = \sqrt{1 - 0.76^2}$$

11

$$G_{min} = 0.19$$

$$\sum X = 951$$

$$\sum X^2 = 71045$$

$$S^2 = 122.97$$

$$S^2 = 11.08$$

$$\sum Y = 146$$

$$\sum Y^2 = 1694$$

$$S^2 = \frac{1694 - \frac{(146)^2}{13}}{12}$$

$$S^2 = 4.52$$

$$S^2 = 2.12$$