

DISTRIBUCIONES BIDIMENSIONALES

x_i	y_i	f_i	$x_i * f_i$	$y_i * f_i$	$f_i(x_i - \bar{X})^2$	$f_i(y_i - \bar{Y})^2$	$f_i(x_i - \bar{X})(y_i - \bar{Y})$
2	4	1	2	176	30,25	27,5625	8
3	6	1	3	264	20,25	10,5625	18
5	6	1	5	264	6,25	10,5625	30
8	7	1	8	308	0,25	5,0625	56
7	7	1	7	308	0,25	5,0625	49
5	6	1	5	264	6,25	10,5625	30
4	5	1	4	220	12,25	18,0625	20
3	4	1	3	176	20,25	27,5625	12
6	7	1	6	308	2,25	5,0625	42
7	9	1	7	396	0,25	0,0625	63
8	10	1	8	440	0,25	0,5625	80
9	11	1	9	484	2,25	3,0625	99
12	15	1	12	660	20,25	33,0625	180
13	16	1	13	704	30,25	45,5625	208
14	17	1	14	748	42,25	60,0625	238
14	18	1	14	792	42,25	76,5625	252
Totales		16	120	6512	236	339	1385

	X	Y
Media	7,5	9,25
S Desviac.típica	3,84057287	4,60298816
S ² Varianza	14,75	21,1875

$$\bar{X} = \frac{\sum x_i \cdot f_i}{\sum f_i}$$

$$\bar{Y} = \frac{\sum y_i \cdot f_i}{\sum f_i}$$

$$S_x^2 = \frac{\sum f_i (x_i - \bar{X})^2}{\sum f_i}$$

$$S_y^2 = \frac{\sum f_i (y_i - \bar{Y})^2}{\sum f_i}$$

$$S_{xy} = \frac{\sum x_i \cdot y_i \cdot f_i}{\sum f_i} - \bar{X} \cdot \bar{Y}$$

$$\text{corr} = \frac{S_{xy}}{S_x \cdot S_y}$$

$$m = \frac{S_{xy}}{S_x}$$

$$\text{Ordenada} = \bar{Y} - m \cdot \bar{X}$$

Sxy Covarianza	17,1875
correlacion	0,97224752

m Pendiente	1,16525424
B Ordenada	0,51059322

Pendiente Ordenada

Función estimación linea 1,1652542 0,51059

