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**Nombre del trabajo: tabla de
frecuencia**

Materia: estadística

Grado: 1

Grupo: A



Kellmi Disaili Hernández (13-16)

$$B_1 = \frac{\sum xy - n \bar{x} \bar{y}}{\sum x^2 - n \bar{x}^2}$$

$$B_0 = \bar{y} - b_1 \bar{x}$$

$$Y = B_0 + B_1 x$$

X	Y	XY	x ²	y ²
1	1400	1400	1	1960000
2	1430	2860	4	2044900
3	1500	4500	9	2250000
4	1490	5960	16	2220100
5	1520	7600	25	2310400
6	1550	9300	36	2402500
7	1570	10990	49	2464900
8	1600	12800	64	2560000
9	1610	14490	81	2592100
10	1720	17200	100	2958400
11	1710	18810	121	2924100
12	1750	21000	144	3062500
6.5	1570.83	126910	650	

$$B_1 = \frac{126910 - 12(6.5)(1570.83)}{650 - 12(6.5)^2}$$

$$B_1 = 30.66$$

$$B_0 = 1570.83 - 30.66(6.5)$$

$$B_0 = 1371.57$$

$$Y = (30.66) + (1371.57)(13)$$

$$Y_{13} = 1770.12$$

$$Y_{14} = 1800.78$$

$$Y_{15} = 1831.44$$

$$Y_{16} = 1862.1$$

	y	xy	x ²	y ²
1	1430	1430	1	
2	1400	2800	4	2014000
3	1460	4380	9	1960000
4	1465	5860	16	2131600
5	1470	7350	25	2146225
6	1500	9000	36	2160900
7	1510	10570	49	2250000
8	1550	12400	64	2280100
9	1575	14175	81	24202500
10	1600	16000	100	2480625
11	1615	17765	121	2560952
12	1650	19800	144	268225
13	1670	21710	169	2722272
14	1700	23800	196	2888900
15	1700	23800	196	2890000
7.5	1542.5	167040	1015	

$$B_1 = \frac{167040 - 14(7.5)(1542.5)}{1015 - 14(7.5)^2}$$

$$B_1 = 22.31$$

$$B_0 = 1542.5 - 22.31(7.5)$$

$$B_0 = 1375.17$$

$$y = 1375.17 + 22.31(x)$$

$$y_{15} = 1709.82$$

$$y_{16} = 1732.135$$

$$y_{17} = 1754.445$$

$$y_{18} = 1776.755$$