

Fredy Pérez Martínez

Datos Agrupados.

Se tienen los siguientes datos de las interacciones sociales al día (excluyendo las familiares), que los alumnos de secundaria hacen durante la semana.

48, 15, 33, 3, 21, 19, 17, 16, 44, 25, 30, 3, 5, 9, 35, 32, 26, 13, 14, 14,
47, 29, 18, 11, 5, 19, 24, 17, 6, 25, 8, 18, 29, 1, 18, 22, 3, 22, 29, 2,
6, 10, 29, 10, 21, 38, 41, 16, 17, 8, 40, 8, 10, 18, 7, 4, 4, 8, 11, 3, 23, 10, 19,
21, 13, 12, 10, 4, 17, 11, 21, 9, 8, 7, 5, 3, 22, 14, 25, 4, 11, 18, 10, 1, 28,
27, 19, 24, 35, 9, 30, 8, 26.

Haz una tabla de datos agrupados y las gráficas correspondientes.

$$K = 1 + 3.322 \log(94)$$

$$K = 7.5 \approx 8$$

$$R = V_{\max} - V_{\min} \quad R = 48 - 1 = 47 \quad R = 47$$

$$w = \frac{47}{8} = 5.8 \approx 6$$

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Intervalos	f_i	f_r	T_p	T_{PA}	M_i	$f_i \cdot M_i$	$M_i - \bar{x}$	$(M_i - \bar{x})^2$	$f_i \cdot (M_i - \bar{x})^2$
1-6	17	0.18	18	18	3.5	59.5	-13.7	187.69	3190.73
7-12	22	0.24	24	49	9.5	109	-7.7	59.29	1,304.38
13-18	17	0.18	18	66	15.5	263.5	-1.7	2.89	49.13
19-24	14	0.15	15	79	21.5	301	4.3	18.49	258.86
25-30	13	0.14	14	89	27.5	357.5	10.3	106.09	1,379.17
31-36	4	0.04	4	93	33.5	134	16.3	265.69	1062.76
37-42	3	0.03	3	96	39.5	118.5	22.3	497.29	1,491.87
43-48	4	0.04	4	100	45.5	182	28.3	800.89	3,203.56
Total	94	1.00	100			1,625			11,940.46

$$\bar{x} = \frac{1,625}{94} = 17.2$$

$$\bar{x} = 17.2$$

$$s^2 = \frac{11,940.46}{94-1} = \frac{11,940.46}{93} = 128.39$$

$$s = \sqrt{128.39} = 11.33$$

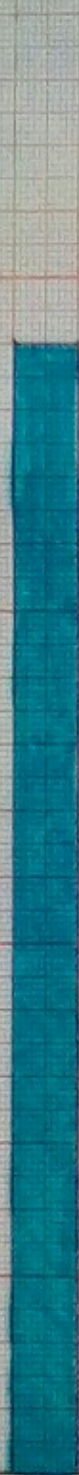
$$C_v = 65.87\%$$

$$C_v = \frac{11.33}{17.2} \times 100 = 65.87\%$$

Gráfica de Barra

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22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1



1-6



7-12



13-18



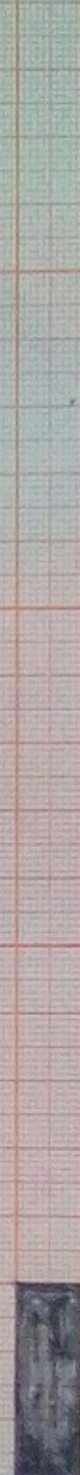
19-24



25-30



31-36



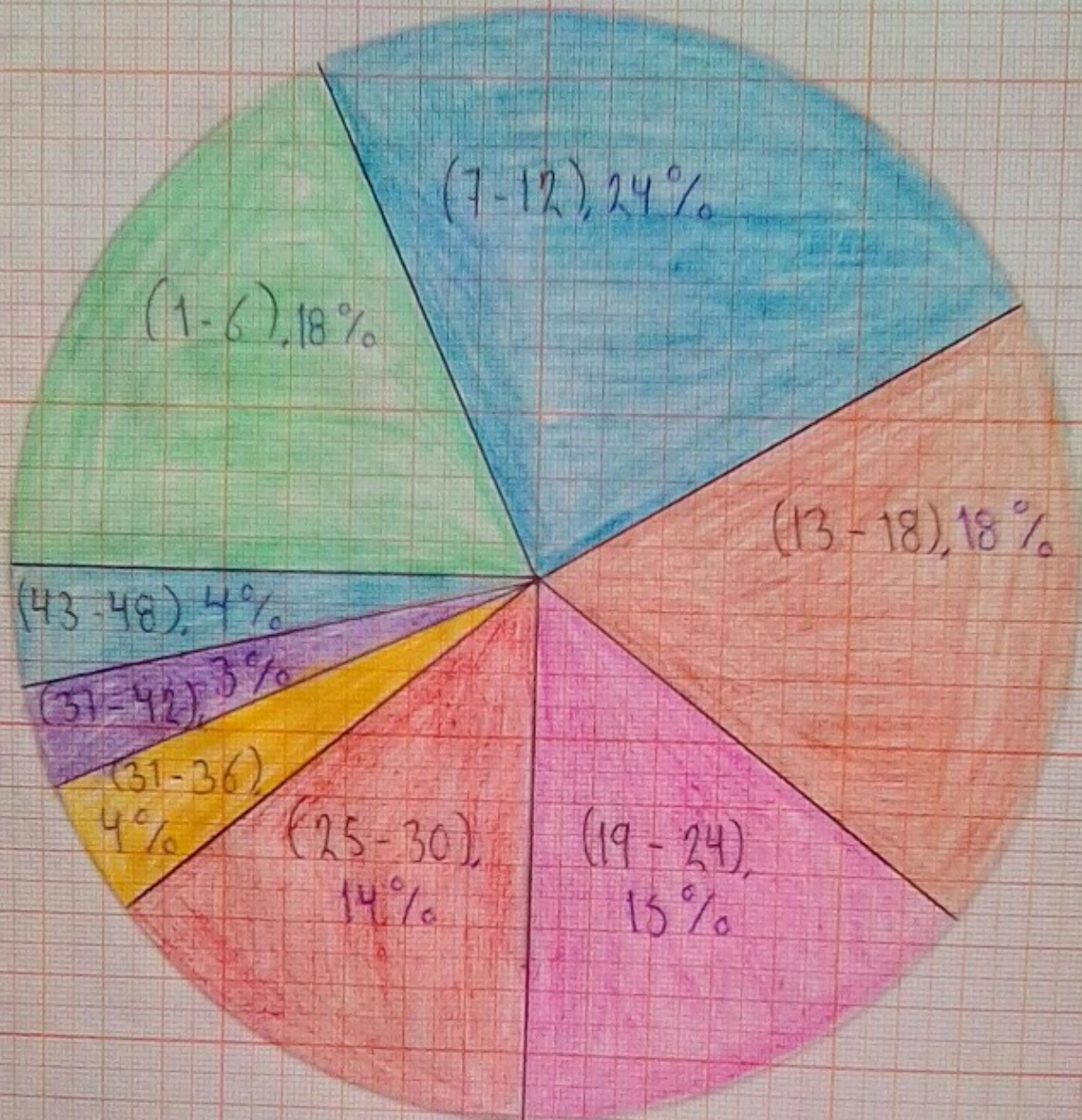
37-42



43-48

Fredí René Martínez

Gráfica de Pooled



Gráfica de Ojiva Fredi Pérez Martínez

