

**Nombre de alumno (a): Roxana Belen López López**

**Nombre del profesor: Jorge Enrique Albores Aguilar**

**Nombre del trabajo: Datos agrupados**

**Materia: Estadística descriptiva**

**Grado: 3er cuatrimestre**

**Grupo: "A"**

21	30	50	21	40
30	49	25	50	47
29	46	34	48	25
21	33	49	40	33
31	39	43	43	35
28	26	21	44	21

Rango

$a = \frac{(No\ mayor - numero\ menor) + 1}{No\ intervalos}$

$a = \frac{(50 - 21) + 1}{6} = \frac{30}{6} = 5$

Intervalo

21 - 25		(7)
26 - 30		(5)
31 - 35		(5)
36 - 40		(3)
41 - 45		(3)
46 - 50		(7)

Intervalo	$F_i$	$\% \cdot F_i$	$F_{iA}$	$\% \cdot F_{iA}$	$\bar{x}$	$F_i \cdot \bar{x}$	$\bar{x}^2$	$F_i \cdot \bar{x}^2$
21-25	7	23.3%	7	23.3%	23	161	529	3,703
26-30	5	16.6%	12	40%	28	140	784	5,488
31-35	5	16.6%	17	56.6%	33	165	1,089	5,445
36-40	3	10%	20	66.6%	38	114	12,996	38,988
41-45	3	10%	23	76.6%	43	129	1,849	5,547
46-50	7	23.3%	30	100%	48	336	2,304	16,128
	30					1,045		75,299

39	56	80	42	68	45
70	40	75	41	53	54
78	42	66	45	64	58
55	56	73	56	41	64
39	67	79	49	44	80

Rango

$$*a = \frac{(80 - 39) + 1}{7} = \frac{42}{7} = 6$$

39 - 44	(8)
45 - 50	(3)
51 - 56	(6)
57 - 62	(1)
63 - 68	(5)
69 - 74	(2)
75 - 80	(5)

Intervalo	$F_i$	% $F_i$	$F_i a$	% $F_i a$	$\bar{x}$	$f_i \bar{x}_i$	$\bar{x}_i^2$	$F_i \bar{x}_i^2$
39-44	8	26.6%	8	26.6%	41.5	332	1,722	13,776
45-50	3	10%	11	36.6%	52	156	2,704	8,112
51-56	6	20%	17	56.6%	53.5	321	2,862	17,172
57-62	1	3.33%	18	60%	59.5	59.5	3,540	3,540
63-68	5	16.6%	23	73.3%	65.5	327.5	107,256	536,280
69-74	2	6.66%	25	83.3%	71.5	143	5,112	10,224
75-80	5	16.66	30	100%	77.5	387.5	6,006	30,030
	30					1,726.5		619,134