



**Candelaria Elizabeth González**

**Gómez**

**4°A**

**Bioestadística**

**Lic. Jorge Enrique Albores**

**Ejercicios**

Comitán de Domínguez, Chiapas a 13 de noviembre de 2020.



# FRECUENCIAS

## ... Ejercicios ...

EJERCICIO

Candelaria Elizabeth González Gámez.

50	49	25	50	47
29	46	34	48	25
20	33	49	40	33
31	39	43	43	35
28	23	20	44	31

$$\text{Rango} = \frac{\text{No. mayor} - \text{No. menor}}{\text{No. intervalos.}}$$

$$\frac{50 - 20}{6} = 5$$

$$a_i = 5$$

Intervalo	$f_i$	% $f_i$	$f_{iA}$	% $f_{iA}$	$\bar{x}_i$	$f_i \bar{x}_i$
20-25	3	12%	3	12%	22.5	67.5
25-30	4	16%	7	28%	27.5	110
30-35	5	20%	12	48%	32.5	162.5
35-40	2	8%	14	56%	37.5	75
40-45	4	16%	18	72%	42.5	170
45-50	7	28%	25	100%	47.5	332.5

$$\sum f_i = 25$$

$$\sum f_i \bar{x}_i = 880$$

$\bar{x}_i^2$	$f_i \bar{x}_i^2$
506.25	1518.75
756.25	3025
1056.25	5281.25
1406.25	2812.5
1806.25	7225
2256.25	15793.75

ejercicio 2

Candelaria Elizabeth Gonzalez Gomez

80	75	71	80	71	77
36	56	80	42	68	45
70	42	75	41	53	59
72	92	66	45	39	58
55	50	73	56	41	69
58	67	79	49	44	58

$$\text{Rango} = \frac{\text{No mayor} - \text{No menor}}{\text{No intervalo}}$$

$$a_i = 6$$

$$\frac{80 - 36}{7} = 6$$

Intervalo	$f_i$	$\% f_i$	$f_i a$	$\% f_i a$	$\bar{x}_i$	$f_i \bar{x}_i$	$x_i^2$
38 - 44	8	22.22%	8	22.22%	41	328	1681
44 - 50	5	13.88%	13	36.11%	47	235	2209
50 - 56	3	8.33%	16	44.44%	53	159	2809
56 - 62	4	11.11%	20	55.55%	59	236	3481
62 - 68	4	11.11%	24	66.66%	65	260	4225
68 - 74	5	13.88%	29	80.55%	71	355	5041
74 - 80	7	19.44%	36	100%	77	539	5929

$\Sigma f_i = 36$

$\Sigma f_i \bar{x}_i = 2112$

- $f_i \bar{x}_i^2$
- 13448
  - 11045
  - 8427
  - 13924
  - 16900
  - 25205
  - 41503