



**Nombre de
alumno:**

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Nombre del profesor:

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Nombre del trabajo:

EJERCICIOS

Materia:

Estadística Descriptiva

Grado: 3°

Grupo: "A"

Comitán de Domínguez Chiapas a 27 de julio de 2021

f_i	$f_i\%$	F_{ia}	$f_{ia}\%$	\bar{x}	f_{ixi}	$(\bar{x})^2$	$(f_{ixi})^2$
5	16.66%	5	16.66	23.5	117.5	552.5	2760
5	16.66%	10	33.33%	29.5	147.5	870.2	4351
4	13.33%	14	46.66%	35.5	142.	1260.2	5040.8
8	26.66%	22	73.33%	41.5	332	1720.2	13777.6
8	26.66%	30	100%	47.5	380	2256.2	18049.6

21 - 26 | | | | |
 27 - 32 | | | | |
 33 - 38 | | | | |
 39 - 44 | | | | | | | | | |
 45 - 50 | | | | | | | | | |

$$a = \frac{50 - 21 + 1}{5}$$

$$a = \frac{30}{5} = 6$$

$$\sum f_{ixi} = 1119$$

$$(\sum f_{ixi})^2 = 43,979$$

Media

$$\bar{x} = \frac{1119}{30}$$

$$\bar{x} = 37.3$$

Mediana

$$Me = 33 + \frac{(15 - 10)}{4} (5)$$

$$Me = 33 + 6.25 = 39.25$$

Moda

$$M_0 = \frac{41.5 + 47.5}{2} = 44.5$$

Varianza

$$s^2 = \frac{43,979 - \frac{(1119)^2}{30}}{30 - 1}$$

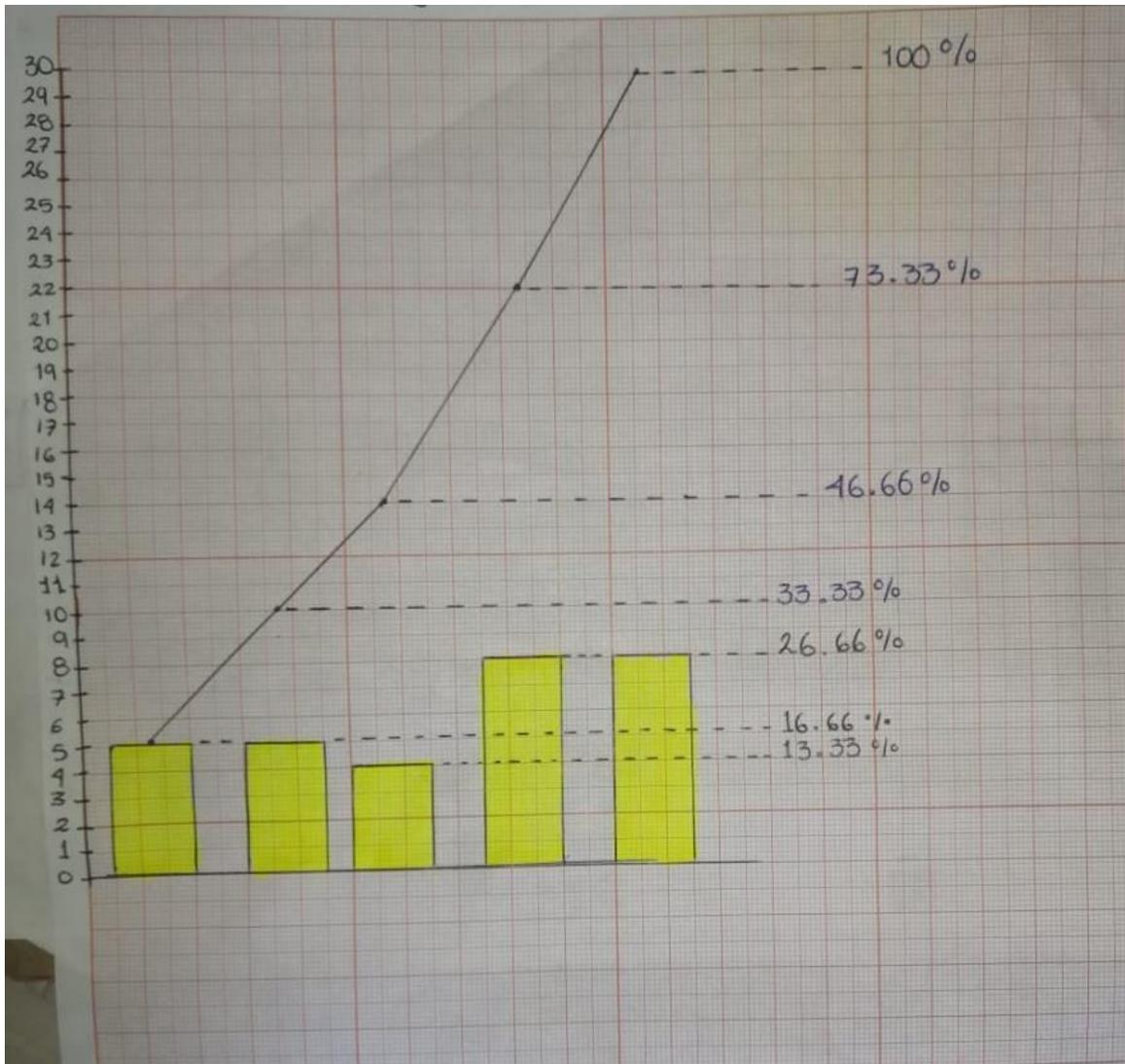
$$s^2 = \frac{43,979 - 41,738.7}{29}$$

$$s^2 = 77.251$$

Desviación Estandar

$$s = \sqrt{77.251}$$

$$s = 8.789$$



f_i	$f_i\%$	f_{ia}	$f_{ia}\%$	\bar{x}	fix_i	$(\bar{x})^2$	$(fix_i)^2$
2	6.66%	2	6.66%	35.5	71	1260.2	2520.4
7	23.33%	9	30%	41.5	290.5	1722.2	12055.9
2	6.66%	11	36.66%	47.5	95	2256.2	4512.4
6	20%	17	56.66%	53.5	321	2862.5	17173
1	3.33%	18	60%	59.5	59.5	3540.2	3540.2
5	16.66%	23	76.66%	327.5	327.5	4290.2	21451
2	6.66%	25	83.33%	143	143	5112.2	10224.4
5	16.66%	30	100%	387.5	387.5	6006.2	30,031

33 - 38 ||

39 - 44 ||| ||| |||

45 - 50 ||

51 - 56 ||| ||| |||

57 - 62 |

63 - 68 ||| ||| |||

69 - 74 ||

75 - 80 ||| ||| |||

$$a = \frac{80 - 33 + 1}{8}$$

$$a = \frac{48}{8} = 6$$

$$\sum fix_i = 1695.1$$

$$(\sum fix_i)^2 = 101509.5$$

Media

$$\bar{x} = \frac{1695.1}{30}$$

$$\bar{x} = 56.5$$

Mediana

$$Me = 51 + \frac{(15 - 11)}{6} (6)$$

$$Me = 55$$

Moda

$$Mo = 39 + \frac{(7 - 2)}{(7 - 2)(7 + 2)} (6)$$

$$Mo = 39 + \frac{5}{14} (6)$$

$$Mo = 41.14$$

Varianza

$$s^2 = \frac{101509.5 - \frac{(1695.1)^2}{30}}{30 - 1}$$

$$s^2 = \frac{101509.5 - 95767.5}{29}$$

$$s^2 = 197.9$$

Desviación

Estandar

$$s = \sqrt{197.9}$$

$$s = 14.06$$

Grafica del ejercicio 2

