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Nombre del trabajo: Examen

Materia: ESTADISTICA

PASIÓN POR EDUCAR

Grado: 1

Grupo: A

	f_i	x_i Marca da Classe	f Frecuencia Relativa	F_i Frecuencia Acomulada	F_{ri} Frecuencia R. Acomulada	$x_i \cdot f_i$
19.0 - 20.5	8	19.5	0.16	8	0.16	156
20.6 - 22.1	15	21.35	0.3	23	0.46	320.25
22.2 - 23.7	12	22.95	0.24	35	0.7	275.4
23.8 - 25.3	15	24.55	0.3	50	1	368.25
	50		1			

19.7, 24.2, 23.8, 20.7, 23.8, 24.3, 21.1, 20.9, 21.6, 22.7,
 21.3, 21.5, 23.1, 19.9, 24.2, 24.1, 19.8, 23.9, 22.8, 23.9,
 23.7, 20.3, 23.6, 19.0, 25.1, 25.0, 19.5, 24.1, 24.2, 21.8,
 25.3, 20.7, 22.5, 21.2, 23.8, 23.3, 20.9, 22.9, 23.5, 19.5,
 20.8, 22.8, 21.9, 22.0, 20.7, 20.9, 25.0, 22.2, 22.8, 20.1,

MODA

Moda = 21.35, 24.55

MEDIA

$$\bar{x} = \frac{8(19.5) + 15(21.35) + 12(22.95) + 15(24.55)}{50}$$

$$\bar{x} = \frac{156 + 320.25 + 275.4 + 368.25}{50}$$

$$\bar{x} = \underline{\underline{22.398}}$$

MEDIANA

$$\text{Mediana} = 22.2 + \frac{(23.7 - 22.2)(0.5 - 0.46)}{0.24}$$

$$\text{Mediana} = 22.2 + 0.25$$

$$\text{Mediana} = \underline{\underline{22.45}}$$

	f_i	x_i Marca de Clase	f_r Frecuencia Relativa	F_i Frecuencia Acomulada	F_r Frecuencia R. Acomulada	$x_i \cdot f_i$
9 - 10	6	9.5	0.12	6	0.12	57
11 - 12	20	11.5	0.4	26	0.52	230
13 - 14	8	13.5	0.16	34	0.68	108
15 - 16	11	15.5	0.22	45	0.9	170.5
17 - 18	4	17.5	0.08	49	0.98	70
19 - 20	1	19.5	0.02	50	1	19.5
	50		1			655

12, 10, 9, 11, 15, 16, 9, 10, 10, 11, 12, 13, 14, 15, 11, 11, 12, 16, 11, 17, 16, 16, 15, 14, 12, 11, 11, 11, 12, 12, 12, 15, 13, 14, 16, 15, 18, 19, 18, 10, 11, 12, 12, 11, 13, 13, 15, 13, 11, 12

Rango = 19 - 9 = 10

Intervalo = $1 + 3.322 \log(50)$
 $= 1 + 5.6437$
 $= 6.6 = 6$

Ancho de Intervalos = $10/6 = 1.6 = 2$

MEDIA

$\bar{x} = \frac{6(9.5) + 20(11.5) + 8(13.5) + 11(15.5) + 4(17.5) + 1(19.5)}{50}$

$\bar{x} = \frac{57 + 230 + 108 + 170.5 + 70 + 19.5}{50}$

$\bar{x} = \frac{655}{50} = 13.1$

MEDIANA

Mediana = $11 + \frac{(12-11)(0.5-0.12)}{0.4}$

Mediana = $11 + 0.95$

Mediana = 11.95

MODA

Moda = 11.5