

Antonio U' Camacho

Intervalos	x	f _i	F _i	f _r	F _r	%	x _i · f _i
[0-4)	2	3	3	0.14	0.14	14%	6
[4-8)	6	5	8	0.23	0.37	23%	30
[8-12)	10	6	14	0.28	0.65	28%	60
[12-16)	14	4	18	0.19	0.84	19%	56
[16-20]	18	3	21	0.14	0.98	14%	54
		21		0.98			206

media Aritmética:

$$\bar{x} = \frac{\sum x_i \cdot f_i}{N} = \frac{206}{21} = 9.80$$

$$\text{mediana } Me = L + \frac{N - F_{i-1}}{f_i} \cdot a$$

$$Me = 8 + \frac{21 - 8}{6} \cdot 4$$

$$Me = 8 + \frac{13}{6} \cdot 4$$

$$Me = 8 + \frac{52}{6}$$

$$Me = \frac{48}{6} + \frac{52}{6} = \frac{100}{6} = 16.66$$

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moda. $MO = L + \frac{f_i - f_{i-1}}{f_i - f_{i-1} + f_i - f_{i+1}} \cdot H$

$$MO = 8 + \frac{6-5}{(6-5) + (6-4)} \cdot 4$$

$$MO = 8 + \frac{1}{1+2} \cdot 4$$

$$MO = 8 + \frac{1}{3} \cdot \frac{4}{1}$$

$$MO = 8 + \frac{4}{3}$$

$$MO = \frac{24}{3} + \frac{4}{3} = \frac{28}{3} = \boxed{9.33}$$

$$Q_3 = \frac{3(211)}{4}$$

$$Q_3 = \frac{633}{4} = \sqrt{15.75} \quad P_{45} = \frac{45(211)}{100}$$

$$D_8 = \frac{8(21)}{10} \quad P_{45} = \frac{945}{100}$$

$$D = \frac{168}{10} = 16.8 = \sqrt{14}$$