

Frecuencia Absoluta
Frecuencia Acumulada

	Intervalos	M.C	F.A	F.A	Xp.Fp	%
1	[0-4)	2	3	3	6	
2	[4-8)	6	5	8	30	
3	[8-12)	10	6	14	60	
4	[12-16)	14	4	18	56	
5	[16-20)	18	3	21	54	
TOTAL			21		206	

2. Determina la media, mediana y moda de los datos agrupados

$$\bar{x} = \frac{206}{10} = 20.6$$

$$Me = 10 + \frac{7-8}{6} \cdot 5 = 10 + \frac{1}{6} \cdot 5 = 10 + 0.16 \cdot 5 = 10 + 0.8 = 10.8$$

$$MO = 10 + \frac{6-5}{(6 \cdot 5) + (6 \cdot 4)} \cdot 5 = 10 + \frac{1}{1+2} \cdot 5 = 10 + \frac{1}{3} \cdot 5 =$$

$$\frac{10}{1} + \frac{5}{3} = 10 + 1.66 = MO = 11.666$$

a. Cuartil número 3

$$Q_3 = \frac{3(21)}{4}$$

$$Q_3 = \frac{63}{4}$$

$$Q_3 = 15.75$$

~~$Q_3 = 16$~~

b. Decil número 8

$$D_8 = \frac{8(21)}{10}$$

$$D_8 = \frac{168}{10}$$

$$D_8 = 16.8$$

c. Percentil número 45

$$P_{45} = \frac{45(60)}{100}$$

$$P_{45} = \frac{2,700}{100}$$

$$P_{45} = 27$$