



Universidad del sureste

**Estructura Organizacional
Licenciatura en Administración
de Empresas**

Tercer Cuatrimestre

Cuadro Sinóptico

Vázquez Díaz Yeni Fernanda

Comitán de Domínguez,

Chiapas 06 de junio del 2020.

Estadística

Yeni Fernanda Vázquez D.

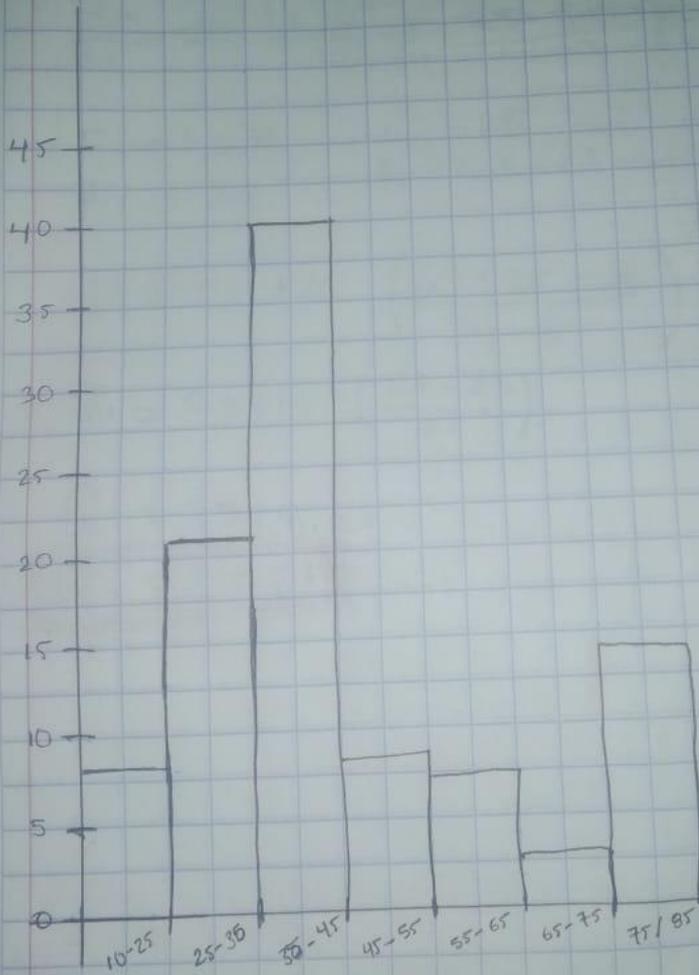
Datos	f_i	f_{ire}	mc	$f_i \cdot mc$	f_r	f_{ire}
10-25	8	8	17.5	140	.079	7.9%
25-35	21	29	30	630	.207	20.7%
35-45	40	69	40	1,600	.396	39.6%
45-55	8	77	50	400	.079	7.9%
55-65	7	84	60	420	.069	6.9%
65-75	3	87	70	210	.029	2.9%
75-85	14	101	80	1,120	.138	13.8%

$$n = 101$$

$$\frac{f_i}{n}$$

$$\frac{f_i}{n} = .100$$

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SEGUNDO CUARTIL

$$\frac{Kn}{4} = \frac{2 \times 101}{4} = 50.5 \text{ posición}$$

$$F_{i-1} = 50$$

$$L_i = 45$$

$$F_i = 60$$

$$A = L_s - L_i = 55 - 45 = 10$$

$$Q_2 = 45 + 10 \left(\frac{50.5 - 50}{60 - 50} \right)$$

$$Q_2 = 45 + 10 \left(\frac{0.5}{10} \right)$$

$$Q_2 = 45 + 0.5$$

$$Q_2 = 45.5$$

TERCER CUARTIL

$$\frac{Kn}{4} = \frac{3 \cdot 101}{4} = 75.75 \text{ posición}$$

$$F_{i-1} = 69$$

$$L_i = 45$$

$$F_i = 77$$

$$A = L_s - L_i = 77 - 45 = 32$$

$$Q_3 = 45 + 10 \left(\frac{75.75 - 69}{77 - 69} \right)$$

$$Q_3 = 45 + 10 \left(\frac{6.75}{8} \right)$$

$$Q_3 = 45 + 8.43$$

$$Q_3 = 53.43$$

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PRIMER CUARTIL

$$Q_k = L_i + A \left(\frac{\frac{kn}{4} - F_{i-1}}{F_i - F_{i-1}} \right)$$

$$\frac{kn}{4} = \frac{1 \times 101}{4} = 25.25 = \text{posición}$$

$$F_{i-1} = 8$$

$$L_i = 25$$

$$F_i = 29$$

$$A = L_5 - L_4 = 10$$

$$Q_1 = 25 + 10 \left(\frac{25.25 - 8}{29 - 8} \right)$$

$$Q_1 = 25 + 10 \left(\frac{17.25}{21} \right)$$

$$Q_1 = 25 + 8.21$$

$$Q_1 = 33.21$$

1. V. Ibrarwati May Yeni Fernanda N. D.

PRIMER Decil

$$D_k = L_i + A \left(\frac{\frac{kn}{10} - f_{i-1}}{f_i - f_{i-1}} \right)$$

$$\frac{kn}{10} = \frac{1 \times 101}{10} = 10.1 \text{ position}$$

$$F_{i-1} = 8$$

$$L_i = 25$$

$$F_i = 29 \quad A = L_s - L_i = 10$$

$$D_1 = 25 + 10 \left(\frac{10.1 - 8}{29 - 8} \right)$$

$$D_1 = 25 + 10 \left(\frac{2.1}{21} \right)$$

$$D_1 = 25 + 1$$

$$D_1 = 26$$

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$$D_k = L_i + A \left(\frac{\frac{kn}{10} - f_{i-1}}{f_i - f_{i-1}} \right)$$

$$\text{Posición} = \frac{kn}{10} = \frac{2 \cdot 101}{10} = 20.2$$

$$f_{i-1} = 8 \quad L_i = 25$$

$$f_i = 29, \quad A = L_s - L_i = 25 - 35 = 10$$

$$D_2 = 25 + 10 \left(\frac{20.2 - 8}{29 - 8} \right)$$

$$D_2 = 25 + 10 \left(\frac{12.2}{21} \right)$$

$$D_2 = 25 + 5.80$$

$$D_2 = 30.8$$

Tercer Decil

$$\frac{Kn}{10} = \frac{3 \times 101}{10} = 30.3$$

$$F_{i-1} = 29 \quad L_i = 35$$
$$F_L = 69 \quad A = L_s - L_i = 10$$

$$D_3 = 35 + 10 \left(\frac{30.3 - 29}{69 - 29} \right)$$

$$D_3 = 35 + 10 \left(\frac{1.3}{40} \right)$$

$$D_3 = 35 + 0.32$$

$$D_3 = 35.32$$

Cuarto Decil

$$\frac{Kn}{10} = \frac{4 \times 101}{10} = 40.4$$

$$F_{i-1} = 29 \quad L_i = 35$$
$$F_L = 69 \quad A = L_s - L_i = 45 - 35 = 10$$

$$D_4 = 35 + 10 \left(\frac{40.4 - 29}{69 - 29} \right)$$

$$D_4 = 35 + 10 \left(\frac{11.4}{40} \right)$$

$$D_4 = 35 + 2.85$$

$$D_4 = 37.85$$

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Quinto Decil

$$\frac{K_n}{10} = \frac{5 \times 101}{10} = 50.5$$

$$F_{l-1} = 29$$

$$L_i = 35$$

$$F_i = 69$$

$$A = L_s - L_i = 10$$

$$D_5 = 35 + 10 \left(\frac{50.5 - 29}{69 - 29} \right)$$

$$D_5 = 35 + 10 \left(\frac{21.5}{40} \right)$$

$$D_5 = 35 + 5.37$$

$$D_5 = 40.37$$

