



**ESCUELA: UNIVERSIDAD DEL SURESTE**

**ALUMNO: GRISLY MARBEY LÓPEZ FIGUEROA**

**CARRERA: ADMINISTRACIÓN DE EMPRESAS**

**MATERIA: ESTADÍSTICA DESCRIPTIVA.**

**CUATRIMESTRE: 3RO      GRUPO: A**

**NOMBRE DEL CATEDRÁTICO: ALBORES AGUILAR  
JORGE ENRIQUE.**

**LUGAR: COMITÁN DE DOMÍNGUEZ**

**FECHA ENTREGA: 06/JUNIO/2020**

• ESTADÍSTICA DESCRIPTIVA •

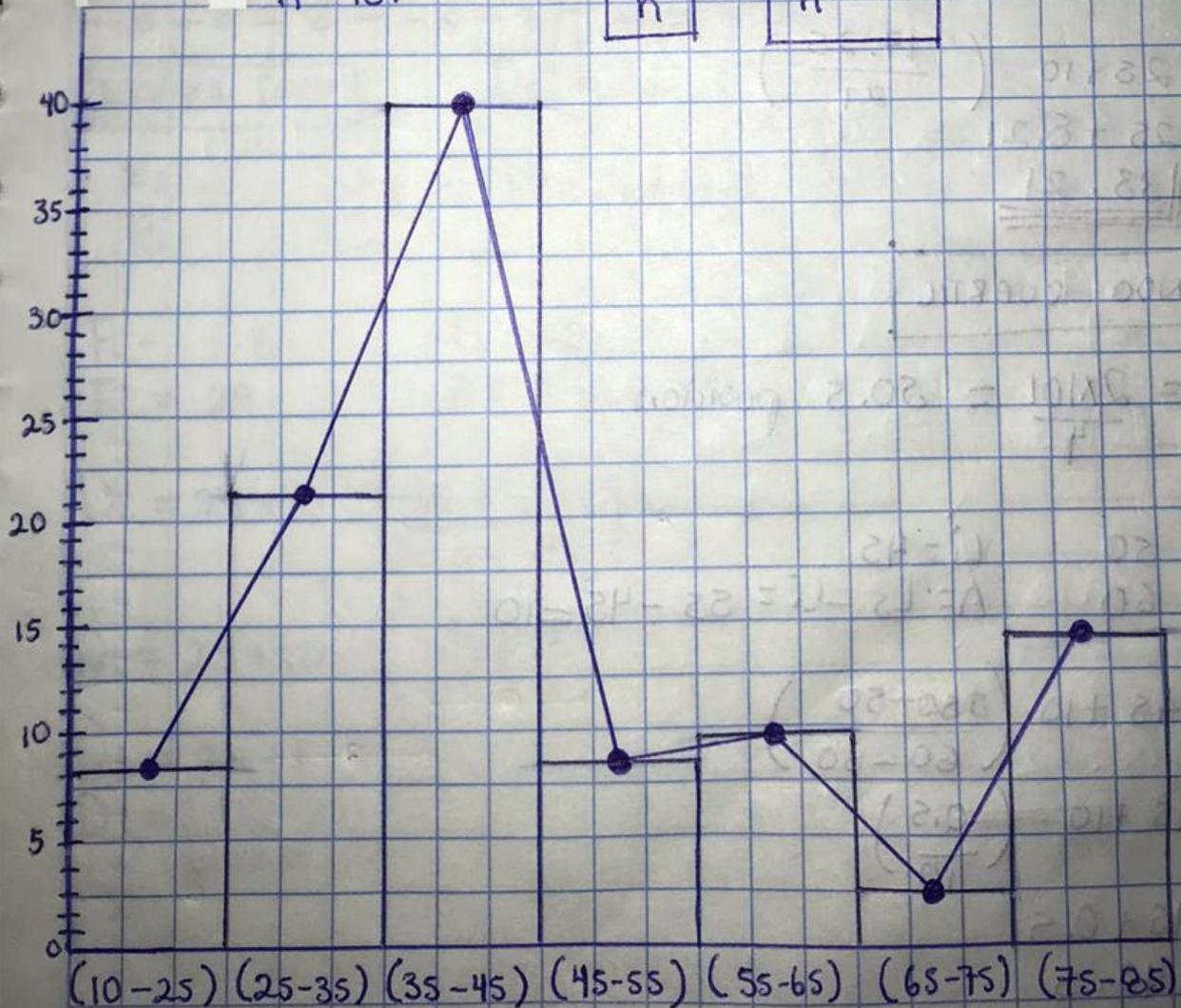
GRISLY MARBEY LOPEZ FIGUEROA

Datos	Fi	Firc	MC	Fi.mc	Fr	fir
10-25	8	8	17.5	140	0.079	7.9%
25-35	21	29	30	630	0.207	20.7%
35-45	40	69	40	1600	0.396	39.6%
45-55	8	77	50	400	0.079	7.9%
55-65	7	84	60	420	0.069	6.9%
65-75	3	87	70	210	0.029	2.9%
75-85	14	101	80	1120	0.138	13.8%
	101					

n = 101

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

$$\frac{F_i}{n} \cdot 100$$



# GRISLY MARBEY LÓPEZ FIGUEROA

## PRIMER CUARTIL

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

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

$$F_{i-1} = 8 \quad L_i = 25$$
$$F_i = 24 \quad A = L_s - L_i = 10$$

$$Q_1 = 25 + 10 \left( \frac{25.25 - 8}{24 - 8} \right)$$

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

$$Q_1 = 25 + 8.21$$

$$Q_1 = \underline{\underline{33.21}}$$

## SEGUNDO CUARTIL

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

$$F_{i-1} = 50 \quad L_i = 45$$
$$F_i = 60 \quad A = L_s - L_i = 55 - 45 = 10$$

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

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

$$Q_2 = 45 + 0.5$$

$$Q_2 = \underline{\underline{45.5}}$$

TERCER CUARTIL

GRISLY MARBEY LÓPEZ FIGUEROA

$$\frac{K_n}{4} = \frac{3.101}{4} = 75.75 \text{ posición}$$

$$F_{i-1} = 69 \quad L_i = 45$$
$$F_i = 77 \quad A = L_s - L_i = 10$$

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

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

$$Q_3 = 45 + 8.43$$

$$Q_3 = \underline{\underline{53.43}}$$

PRIMER DECIL

$$D_k = L_i + A \left( \frac{K_n - f_{i-1}}{F_i - f_{i-1}} \right)$$

$$\frac{K_n}{10} = \frac{1 \times 101}{10} = 10.1 \text{ posición}$$

$$F_{i-1} = 8 \quad L_i = 25$$
$$F_i = 29 \quad A = L_s - L_i = 10$$

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

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

$$D_1 = 25 + 1$$

$$D_1 = \underline{\underline{26}}$$

## SEGUNDO DECIL

GRISLY MARBEY LÓPEZ FIGUEROA

$$\frac{K_n}{10} = \frac{2 \times 101}{10} = 20.2$$

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

$$L_i = 25$$

$$F_i = 29$$

$$A = L_s - L_i = 10$$

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

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

$$D_2 = 25 + 5.80$$

$$D_2 = \underline{30.8}$$

## TERCER DECIL

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

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

$$L_i = 35$$

$$F_i = 69$$

$$A = L_s - L_i = 10$$

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

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

$$D_3 = 35 + 0.32$$

$$D_3 = \underline{35.32}$$

### CUARTO DECIL

CRISTY MARBEY LOPEZ  
FIGUEROA

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

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

$$L_i = 35$$

$$F_i = 69$$

$$A = L_s - L_i = 45 - 35 = 10$$

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

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

$$D_4 = 35 + 2.85$$

$$D_4 = \underline{\underline{37.85}}$$

### QUINTO DECIL

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

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

$$L_i = 35$$

$$F_i = 69$$

$$A = L_s - L_i = 10$$

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

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

$$D_5 = 35 + 5.37$$

$$D_5 = \underline{\underline{40.37}}$$