



ASIGNATURA: ESTADISTICA DESCRIPTIVA

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Carrera: Licenciatura en Contaduría Pública y finanzas

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Ivamaí.

Datos agrupados.

f_i	fire	nc	$f_i \cdot mc$	$\frac{f_i}{n} \cdot x$	$f_i \cdot r$
8	8	25	200	0.166	16.6
4	12	45	180	0.083	8.3
12	24	65	780	0.25	25
8	32	85	680	0.166	16.6
7	39	105	735	0.145	14.5
3	42	125	375	0.0625	6.25
6	<u>48</u>	145	870	0.125	12.5

Datos:

datos.	f_i	f_i
25-35	8	8
35-45	4	12
45-55	12	24
55-65	8	32
65-75	7	39
75-85	3	42
85-95	6	48

Cuartiles.

Ivanna

$$Q_1: 1 \cdot 48 = \frac{48}{4} \quad 12 \text{ posición}$$

$$Q_2: 2 \cdot 48 = \frac{96}{4} \quad 24 \text{ posición}$$

$$Q_3: 3 \cdot 48 = \frac{144}{4} \quad 36 \text{ posición}$$

$$\begin{array}{l} L_i = 65 \\ L_o = 75 \\ A = 10 \\ F_{i-1} = 32 \\ F_i = 39 \end{array}$$

$$Q_3 = 65 + 10 \left(\frac{36 - 32}{39 - 32} \right)$$

$$Q_3 = 65 + 10 \left(\frac{4}{7} \right)$$

$$Q_3 = 65 + 5.714$$

$$\underline{\underline{Q_3 = 70.714}}$$

Deciles

Ivanna

$$D_3 = 3 \cdot 48 = \frac{144}{10} = 14.4$$

Li 45
Ls 55
A 10

$$D_3 = 45 + 10 \left(\frac{14.4 - 12}{24 - 12} \right)$$

$F_{i-1} = 12$
 $F_i = 24$

$$D_3 = 45 + 10 \left(\frac{2.4}{12} \right)$$

$$D_3 = 45 + 2$$

$$D_3 = \underline{\underline{47}}$$

$$D_7 = 7 \cdot 48 = \frac{336}{10} = 33.6$$

Li 65
Ls 75
A 10

$$D_7 = 65 + 10 \left(\frac{33.6 - 32}{39 - 32} \right)$$

$F_{i-1} = 32$
 $F_i = 39$

$$D_7 = 65 + 10 \left(\frac{1.6}{7} \right)$$

$$D_7 = 65 + 2.285$$

$$D_7 = \underline{\underline{67.285}}$$

$$D_9 = 9 \cdot 48 = \frac{432}{10} = 43.2$$

Li 85
Ls 95
A 10

$$D_9 = 85 + 10 \left(\frac{43.2 - 42}{48 - 42} \right)$$

$F_{i-1} = 42$
 $F_i = 48$

$$D_9 = 85 + 10 \left(\frac{1.2}{6} \right)$$

$$D_9 = 85 + 2$$

$$D_9 = \underline{\underline{87}}$$

Scribe

Percentiles

Ivanna.

$$P_{40} = 40.48 = \frac{1920}{100} = 19.2$$

$$L_i = 45$$

$$L_s = 55$$

$$A = 10$$

$$F_{i-1} = 12$$

$$F_i = 24$$

$$P_{40} = 45 + 10 \left(\frac{19.2 - 12}{24 - 12} \right)$$

$$P_{40} = 45 + 10 \left(\frac{7.2}{12} \right)$$

$$P_{40} = 45 + 6$$

$$P_{40} = \underline{\underline{51}}$$

$$P_{57} = 57.48 = \frac{2736}{100} = 27.36$$

$$L_i = 55$$

$$L_s = 65$$

$$A = 10$$

$$F_{i-1} = 24$$

$$F_i = 32$$

$$P_{57} = 55 + 10 \left(\frac{27.36 - 24}{32 - 24} \right)$$

$$P_{57} = 55 + 10 \left(\frac{3.36}{8} \right)$$

$$P_{57} = 55 + 4.2$$

$$P_{57} = 59.2$$

$$P_{78} = 78.48 = \frac{3744}{100} = 37.44$$

$$L_i = 65$$

$$L_s = 75$$

$$A = 10$$

$$F_{i-1} = 32$$

$$F_i = 39$$

$$P_{78} = 65 + 10 \left(\frac{37.44 - 32}{39 - 32} \right)$$

$$P_{78} = 65 + 10 \left(\frac{5.44}{7} \right)$$

$$P_{78} = 65 + 7.771$$

$$P_{78} = 72.771$$

Scribe