Tema: EJERCICIO

- NOMBRE DEL ALUMNO: DENILSON ANTONIO CRUZ VELASCO
- NOMBRE DEL DOCENTE: JORGE ENRIQUE ALBORES ALGUILAR
- CARRERA: CONTADURIA Y FINANZAS
- CUATRIMESTRE:3°
- MATERIA: ESTADISTICA DESCRIPTIVA
- COMITÁN DE DOMINGUEZ CHIAPAS, A 20 DE JUNIO DEL 2020

Datos Agrupados

Datos	Fi	Fire	MC	Fi.MC	Fr	Fir %
15 - 35	8	8	25	200	0.666	16.6 %
35 - 55	4	12	45	180	0.083	8.3 %
55 - 75	12	24	65	975	0.25	25 %
75 - 95	8	32	85	680	0.166	16.6%
95 - 115	7	39	105	735	0.145	14.5 %
115 - 135	3	42	125	375	0.062	6.2 %
135 - 155	6	48	145	870	0.125	12.5%

Decil 3, 7, 9

Dato	Fi	Fi
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

$$D_k = L_i + A\left(\dfrac{\frac{kn}{10} - F_{1-1}}{F_1 - F_{1-1}}\right) \quad \text{pocicion } \dfrac{kn}{10}$$

① $D_3 \rightarrow \dfrac{3 \times 48}{10} = 14.4$

$L_{1-1} = 12 \qquad L_1 = 45$

$f_1 = 2a \qquad A = LS - L_i = 10$

$$D_8 = 45 + 10\left(\dfrac{14.4 - 12}{24 - 12}\right)$$

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

$$D_3 = 45 + 2$$
$$D_3 = 47$$

② $D_7 \rightarrow \dfrac{7 \times 48}{10} = 36.6$

$L_{1-1} = 32 \qquad L_1 = 65$

$F_1 = 39 \qquad A = LS - L_1 = 10$

$$D_7 = 65 + 10\left(\dfrac{36.6 - 32}{39 - 32}\right)$$

$$D_7 = 65 + 10\left(\dfrac{4.6}{7}\right)$$

$$D_7 = 65 + 6.5714$$

$$D_7 = 71.5714$$

③ $D_9 \rightarrow \dfrac{9 \times 48}{10} = 43.2$

$L_{1-1} = 42 \qquad L_1 = 85$

$F_1 = 48 \qquad A = LS \cdot L_1 = 10$

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

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

$$D_9 = 85 + 2$$

$$D = 87$$

Percentil 40, 57, 78.

Dato	FI	FI
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

$$Pk = L_1 + A \left(\dfrac{\frac{kn}{100} - F_{1-1}}{F_1 - F_{1-1}} \right) \quad \text{Pocicion} \quad \dfrac{kn}{100}$$

① $P_{40} \to \dfrac{40 \times 48}{100} = 19.2$

$F_{1-1} = 12 \qquad L_1 = 45$

$F_1 = 24 \qquad A = 10$

$P_{40} = 45 + 10 \left(\dfrac{19.5 - 12}{24 - 12} \right)$

$P_4 = 45 + 10 \left(\dfrac{7.2}{12} \right)$

$P_{40} = 45 + 6$

$P_4 = 51$

② $P_{57} \to \dfrac{57 \times 48}{100} = 27.36$

$F_{1-1} = 24 \qquad L_1 = 55$

$F_1 = 32 \qquad A = 10$

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

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

$P_{57} = 55 + 4.2$

$P_{57} = 54.2$

③ $P_{78} \to \dfrac{78 - 48}{100} = 37.44$

$F_{1-1} = 32 \qquad L_1 = 65$

$F_1 = 39 \qquad A = 10$

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

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

$P_{78} = 65 + 7.77$

$P_{78} = 72.77$