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MATERIA: Estadística Descriptiva

FECHA :06/6/2020

Coartiles 1, 2, 3

Edad	f	F
20-40	8	8
40-50	12	20
50-60	7	27
60-70	6	33
70-80	3	36

$$\text{Posición } Q_1 (C_1) = (36) / 4 = 36 / 4 = 9$$

$$F_{i-1} = 8 \quad F_i = 20 \quad L_i = 40 \quad A = (L_5 - L_1) = 10$$

$$Q_1 = 40 + 10 \left(\frac{9-8}{20-8} \right) = 40 + 10 \left(\frac{1}{12} \right) = 40 + 0.83$$

$$Q_1 = 40.83$$

$$Q_2 \text{ posición} = (2) (36) / 4 = 72 / 4 = 18$$

$$Q_2 = 40 + 10 \left(\frac{18-8}{20-8} \right) = 40 + 10 \left(\frac{10}{12} \right) = 40 + 8.33$$

$$Q_2 = 48.33$$

$$Q_3 \text{ posición} = (3) (36) / 4 = 108 / 4 = 27$$

$Q_3 = \text{Limite Superior.}$

$$Q_3 = 60$$

Edad	f	F
20-40	8	8
40-50	12	20
50-60	7	27
60-70	6	33
70-80	3	36

Deciles
1, 2, 3, 4, 5

$$D_1 \text{ posición} = (1) (36) / 10 = 3.6$$

$$D_1 = 20 + 20 \left(\frac{3.6 - 0}{8 - 0} \right) = 20 + 20 \left(\frac{3.6}{8} \right) = 20 + 9$$

$$D_1 = \underline{29}$$

$$D_2 \text{ posición} = (2) (36) / 10 = 7.2$$

$$D_2 = 20 + 20 \left(\frac{7.2 - 0}{8 - 0} \right) = 20 + 20 \left(\frac{7.2}{8} \right) = 20 + 18$$

$$D_2 = \underline{38}$$

$$D_3 \text{ posición} = (3) (36) / 10 = 10.8$$

$$D_3 = 40 + 10 \left(\frac{10.8 - 8}{20 - 8} \right) = 40 + 10 \left(\frac{2.8}{12} \right) = 40 + 2.33$$

$$D_3 = \underline{42.33}$$

$$D_4 \text{ posición} = (4) (36) / 10 = 14.4$$

$$D_4 = 40 + 10 \left(\frac{14.4 - 8}{20 - 8} \right) = 40 + 10 \left(\frac{6.4}{12} \right) = 40 + 5.33$$

$$D_4 = \underline{45.33}$$

$$D_5 \text{ posición} = (5) (36) / 10 = 18$$

$$D_5 = 40 + 10 \left(\frac{18 - 8}{20 - 8} \right) = 40 + 10 \left(\frac{10}{12} \right) = 40 + 8.33$$

$$D_5 = \underline{48.33}$$