

Dato ordenado

49 - 55 - 65 - 66 - 66 - 70 - 72 - 72 - 72 - 74
75 - 75 - 76 - 76 - 77 - 78 - 79 - 80 - 81 - 87
81 - 81 - 83 - 84 - 90

$$K = 1 + 3.322 \log(n)$$

$$K = 1 + 3.322 \log(25)$$

$$K = 1 + 3.322 (1.39794)$$

$$K = 1 + 4.64$$

$$K = 5.64$$

$$R = D_{ma} - D_{me} + 1$$

$$R = 90 - 49 + 1$$

$$R = 41 + 1$$

$$R = 42$$

$$i = 42$$

$$5.64$$

$$i = 7.45$$

$$i = 7$$

Puntaje de 25 alumnos en un examen de contabilidad social

K	L A	L _{ri}	L _{rs}	x _o	f	f _a	f _x
1	49-55	48.5	55.5	52			
2	56-62	55.5	62.5	59	2	2	104
3	63-69	62.5	69.5	66	0	2	0
4	70-76	69.5	76.5	73	3	5	198
5	77-83	76.5	83.5	80	9	14	657
6	84-90	83.5	90.5	87	9	23	720
					2	25	174

$\Sigma f x = 1,853$

$$\bar{X} = \frac{1,853}{25} = 74.12$$

$$MD = L_{ri} + \left(\frac{N/2 - f_{aa}}{f} \right) i \quad 25/2 = 12.50$$

$$MD = 69.5 + \left(\frac{12.5 - 5}{9} \right) 7$$

$$MD = 69.5 + \left(\frac{7.5}{9} \right) 7 \quad MD = 69.5 + (0.83) 7$$

$$MD = 69.5 + 5.81$$

$$MD = 75.31$$

$$M_0 = L_v + \left(\frac{\Delta_1}{\Delta_1 + \Delta_2} \right) i$$

$$\Delta_1 = 9 - 3 = 6$$

$$\Delta_2 = 9 - 9 = 0$$

$$M_0 = 69.5 + \left(\frac{6}{6+0} \right) 7 \quad M_0 = 69.5 + \left(\frac{6}{6} \right) 7$$

$$M_0 = 69.5 + (7) 7 \quad M_0 = 69.5 + 7 = M_0 = 76.5$$

$$Q_x = L_v + \left(\frac{M_x - F_{aa}}{M_x - F} \right) i \quad \frac{25}{4} = 6.25$$

$$Q_1 = 69.5 + \left(\frac{6.25 - 5}{9} \right) 7 \quad Q_1 = 69.5 + \left(\frac{1.25}{9} \right) 7$$

$$Q_1 = 69.5 + (0.14) 7 \quad Q_1 = 69.5 + 0.98 \quad Q_1 = 70.48$$

$$Q_2 = L + i + \left(\frac{\frac{2N}{4} - f_{aa}}{f} \right) i \quad \frac{50}{4} = 12.5$$

$$Q_2 = 69.5 + \left(\frac{12.5 - 5}{9} \right) 7 \quad Q_2 = 69.5 + \left(\frac{7.5}{9} \right) 7$$

$$Q_2 = 69.5 + (0.83) 7 \quad Q_2 = 69.5 + 5.81 \quad Q_2 = 75.31$$

$$Q_3 = L + i + \left(\frac{\frac{3N}{4} - f_{aa}}{f} \right) i \quad \frac{75}{4} = 18.75$$

$$Q_3 = 76.5 + \left(\frac{18.75 - 14}{9} \right) 7 \quad Q_3 = 76.5 + \left(\frac{4.75}{9} \right) 7$$

$$Q_3 = 76.5 + (0.53) 7 \quad Q_3 = 76.5 + 3.71 \quad Q_3 = 80.21$$

$$D_2 = L + i + \left(\frac{\frac{N_2}{10} - f_{aa}}{f} \right) i \quad \frac{50}{10} = 5$$

$$D_2 = 62.5 + \left(\frac{5 - 2}{3} \right) 7 \quad D_2 = 62.5 + \left(\frac{3}{3} \right) 7$$

$$D_2 = 62.5 + (1) 7 \quad D_2 = 62.5 + 7 \quad D_2 = 69.5$$

$$D_6 = Lr_i + \left(\frac{\frac{N_6}{10} - f_{aa}}{f} \right) i \quad \frac{150}{10} = 15$$

$$D_6 = 76.5 + \left(\frac{15 - 14}{9} \right) 7 \quad \text{Q } D_6 = 76.5 + \left(\frac{1}{9} \right) 7$$

$$D_6 = 76.5 + (0.11) 7 \quad D_6 = 76.5 + 0.77 \quad D_6 = 77.27$$

$$D_9 = Lr_i + \left(\frac{\frac{N_9}{10} - f_{aa}}{f} \right) i \quad \frac{225}{10} = 22.5$$

$$D_9 = 76.5 + \left(\frac{22.5 - 14}{9} \right) 7 \quad D_9 = 76.5 + \left(\frac{8.5}{9} \right) 7$$

$$D_9 = 76.5 + (0.94) 7 \quad D_9 = 76.5 + 6.58 \quad D_9 = 83.08$$

$$P_{15} = Lr_i + \left(\frac{\frac{15N}{100} - f_{aa}}{f} \right) 7 \quad \frac{375}{100} = 3.75$$

$$P_{15} = 62.5 + \left(\frac{3.75 - 2}{3} \right) 7 \quad P_{15} = 62.5 + \left(\frac{1.75}{3} \right) 7$$

$$P_{15} = 62.5 + (0.58) 7 \quad P_{15} = 62.5 + 4.06 \quad P_{15} = 66.56$$

$$P_{70} = 2 + i + \left(\frac{\frac{70N}{100} - f_{ad}}{f} \right) i \quad \frac{1,750}{100} = 17.50$$

$$P_{70} = 76.5 + \left(\frac{17.50 - 14}{9} \right) 7 \quad P_{70} = 76.5 + \left(\frac{3.5}{9} \right) 7$$

$$P_{70} = 76.5 + (0.39) 7 \quad P_{70} = 76.5 + 2.73 \quad P_{70} = 79.23$$

$$P_{95} = 2 + i + \left(\frac{\frac{95N}{100} - f_{ad}}{f} \right) i \quad \frac{1,975}{100} = 19.75$$

$$P_{95} = 83.5 + \left(\frac{19.75 - 23}{9} \right) 7 \quad P_{95} = 83.5 + \left(\frac{-3.25}{9} \right) 7$$

$$P_{95} = 83.5 + (0.36) 7 \quad P_{95} = 83.5 + 2.52 \quad P_{95} = 86.02$$

Polígono de frequência de pontos de 25 alunos

