

tema 26

Puntos obtenidos de 25 alumnos en un examen de contabilidad de sociedad

49	55	65	66	66	70	71	72	72	76
75	75	76	76	77	78	79	80	81	81
81	81	83	84	90					

$$K = 1 + 3.322 \cdot \log(N)$$

$$1 + 3.322 \cdot \log(25)$$

$$1 + 3.322 \cdot 1.39794$$

$$K = 5.64$$

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

$$90 - 49 + 1$$

$$i = \frac{R}{K} = \frac{42}{5.64} = 7.44/7$$

$$R = 42$$

K	L A	Lri	LrS	XS	F	Pa	FXS
1	49 - 55	48.5	55.5	52	2	2	104
2	56 - 62	55.5	62.5	59	3	2	0
3	63 - 69	62.5	69.5	66	5	5	198
4	70 - 76	69.5	76.5	73	9	14	657
5	77 - 83	76.5	83.5	80	9	23	720
6	84 - 90	83.5	90.5	87	2	25	174

$$\bar{x} = \frac{\sum X}{N} = \frac{1853}{25}$$

$$74.12 //$$

$$M_d = L_{ri} + \left(\frac{N/4 - F_{a9}}{F} \right) i$$

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

$$69.5 + 5.81 =$$

$$69.5 + \left(\frac{7.5}{9} \right) 7$$

$$75.31 //$$

$$69.5 + (0.83) 7 =$$

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

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

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

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

$$69.5 + \left(\frac{6}{6} \right) 7$$

$$69.5 + (1) 7$$

$$69.5 + 7 = 76.5 //$$

$$Q_1 = L_{ri} + \left(\frac{N/4 - F_{a9}}{F} \right) i$$

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

$$69.5 + \left(\frac{1.25}{9} \right) 7$$

$$69.5 + (0.19) 7 = 0.98 + 69.5$$

$$Q_1 = 70.48 //$$

$$Q_2 = L_{ri} + \left(\frac{N/4 - F_{a9}}{F} \right) i$$

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

$$69.5 + \left(\frac{7.5}{9} \right) 7$$

$$69.5 + (0.83) 7 = 5.81 + 69.5$$

$$Q_2 = 75.31 //$$

$$Q_3 = L_{ri} + \left(\frac{N/4 - F_{a9}}{F} \right) i$$

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

$$76.5 + (0.53) 7$$

$$3.71 + 76.5 = Q_3 = 80.21 //$$

$$76.5 + \left(\frac{4.75}{9} \right) 7$$

Armany.

$$D2 = Lri + \left(\frac{N_0/100 - F_{a9}}{F} \right) i$$

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

$$62.5 + \left(\frac{3}{3} \right) 7$$

$$62.5 + (1) 7 = 7 + 62.5 = D2 = \underline{69.5} //$$

$$D6 = Lri + \left(\frac{N_6/100 - F_{a9}}{F} \right) i$$

$$76.5 + \left(\frac{15 - 14}{9} \right) 7$$

$$76.5 + \left(\frac{1}{9} \right) 7$$

$$76.5 + (0.11) 7 = 0.77 + 76.5 = D6 = \underline{77.27} //$$

$$D9 = Lri + \left(\frac{N_9/100 - F_{a9}}{F} \right) i$$

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

$$76.5 + (8.5) 7$$

$$76.5 + (0.94) 7 = 6.58 + 76.5 = D9 = \underline{83.08} //$$

$$Px = Lri + \left(\frac{N_{15}/100 - F_{a9}}{F} \right) i$$

$$62.5 + \left(\frac{3.75 - 2}{3} \right) 7$$

$$62.5 + \left(\frac{1.75}{3} \right) 7$$

$$62.5 + (0.58) 7 = 4.06 + 62.5 = P15 = \underline{66.56} //$$

$$Px = Lri + \left(\frac{N_{70}/100 - F_{a9}}{F} \right) i$$

$$76.5 + \left(\frac{17.5 - 14}{9} \right) 7$$

$$76.5 + \left(\frac{3.5}{9} \right) 7$$

$$76.5 + (0.39) 7 = 2.73 + 76.5 = P70 = \underline{79.23} //$$

$$P95 = Lri + \left(\frac{N_{95}/100 - F_{a9}}{F} \right) i$$

$$83.5 + \left(\frac{23.75 - 23}{2} \right) 7$$

$$83.5 + \left(\frac{0.75}{2} \right) 7$$

$$83.5 + (0.38) 7 = 2.66 + 83.5 = P95 = \underline{86.16} //$$

Polinomio de frecuencia

Puntos obtenidos de 25 alumnos en un examen de estadística

K	L.A	Lrj	LrS	XS	F	Fa	FXS
1	49	55	49.5	55.5	2	2	104
2	56	62	55.5	62.5	0	2	0
3	63	69	62.5	69.5	3	5	118
4	70	76	69.5	76.5	9	14	457
5	77	83	76.5	83.5	9	23	721
6	84	90	83.5	90.5	2	25	174

