

X	L _A	L ₂₉	L ₂₅	X ₀	f	f _a	f x x ₀	d = (X ₀ - $\bar{x}$)	d ²	f d ²	f (X ₀ - $\bar{x}$) ²
1	45	52	44.5	52.5	5	5	242.5	17.56	87.8	308.35	1541.75
2	53	60	52.5	60.5	8	13	452	9.56	76.48	913.9	731.12
3	67	68	60.5	68.5	10	23	645	7.56	75.6	2.43	24.3
4	69	76	68.5	76.5	12	35	870	6.44	77.28	41.47	497.64
5	77	84	76.5	84.5	5	40	402.5	7.44	72.2	208.57	1042.55
6	85	92	84.5	92.5	0	40	0	22.44	0	503.55	0
7	93	100	92.5	100.5	1	47	96.5	30.44	926.59	926.59	4163.95
							2708.5			359.8	

$$\bar{x} = \frac{\sum f x_0}{N}$$

$$D.M = \frac{\sum f |d|}{N}$$

$$S = \sqrt{\frac{\sum f (x_0 - \bar{x})^2}{N}}$$

$$S = \sqrt{176.19}$$

$$\bar{x} = \frac{2708.5}{47}$$

$$D.M = \frac{359.8}{47}$$

$$S = \sqrt{\frac{4763.95}{47}}$$

$$S = 10.79$$

$$x = 66.06$$

$$D.M = 8.78$$

$$V = \frac{10.79 \times 100}{66.06}$$

$$V = 16.33$$

$$M_d = L_{29} + \left(\frac{N/2 - f_{00}}{f} \right) \cdot h$$

$$M_d = 52.5 + \left(\frac{20.5 - 13}{8} \right) \cdot 8$$

$$M_d = 52.5 + 7.52$$

$$M_d = 60.02$$

$$M_0 = L_{29} + \left(\frac{\Delta_1}{\Delta_1 + \Delta_2} \right) \cdot h$$

$$M_0 = 52.5 + \left(\frac{2}{2+7} \right) \cdot 8$$

$$M_0 = 68.5 + 1.76$$

$$M_0 = 70.26$$

$$Q_1 = L + i + \left(\frac{N}{F} - f_{aa} \right) i \quad Q_1 = 52.5 + \frac{(10.25 - 5)}{8} 8$$

$$Q_1 = 52.5 + \left(\frac{5.25}{8} \right) 8 \quad Q_1 = 52.5 + (0.66) 8$$

$$Q_1 = 52.5 + 5.28 \quad Q_1 = 57.78$$

$$Q_3 = L + i + \left(\frac{N_3}{4} - f_{aa} \right) i \quad Q_3 = 68.5 + \frac{(30.75 - 23)}{12} 8$$

$$Q_3 = 68.5 + \left(\frac{7.75}{12} \right) 8 \quad Q_3 = 68.5 + (0.65) 8$$

$$Q_3 = 68.5 + 5.2 \quad Q_3 = 73.7$$

$$D_3 = L + i + \left(\frac{N_3}{10} - f_{aa} \right) i \quad D_3 = 52.5 + \frac{(12.3 - 5)}{8} 8$$

$$D_3 = 52.5 + \left(\frac{7.3}{8} \right) 8 \quad D_3 = 52.5 + (0.91) 8$$

$$D_3 = 52.5 + 7.28 \quad D_3 = 59.78$$

$$D_7 = L + i + \left(\frac{N_7}{10} - f_{aa} \right) i \quad D_7 = 68.5 + \frac{(28.7 - 23)}{12} 8$$

$$D_7 = 68.5 + \left(\frac{5.7}{12} \right) 8 \quad D_7 = 68.5 + (0.48) 8$$

$$D_7 = 68.5 + 3.84 \quad D_7 = 72.34$$

$$P_{75} = L + i + \left(\frac{N_{75}}{100} - f_{aa} \right) i \quad P_{75} = 68.5 + \frac{(30.75 - 23)}{12} 8$$

$$P_{75} = 68.5 + \left(\frac{7.75}{12} \right) 8 \quad P_{75} = 68.5 + (0.65) 8 \quad P_{75} = 68.5 + 5.2$$

$$P_{75} = 73.7$$

$$P_{90} = L + P + \left(\frac{N_{90}}{f} - f_{aa} \right) i \quad P_{90} = 76.5 + \frac{(369 - 35) \cdot 8}{5}$$

$$P_{90} = 76.5 + \frac{(19) \cdot 8}{5} \quad P_{90} = 76.5 + (0.38) \cdot 8 \quad P_{90} = 76.5 + 3.04$$

$$P_{90} = 79.54$$