

Puntajes Obtenidos Por 25 Alumnos En Un Examen De Estudios Sociales De Básico.

Intervalo	Lvi	f	Fa
49 - 55	48.5	2	2
56 - 69	55.5	3	5
70 - 76	68.5	9	14
77 - 83	76.5	9	23
84 - 90	83.5	2	25

Calculando las siguientes percentiles, 15, 40, y 95

$$P_{15} = L_{vi} + \frac{(N_{15} - F_{aa})}{f}$$

$$P_{15} = \frac{25 \times 15}{100} = \frac{375}{100} = 3.75$$

$$P_{15} = 55.5 + \frac{(3.75 - 2)}{3}$$

$$P_{15} = 55.5 + \frac{(1.75)}{3}$$

$$P_{15} = 55.5 + (0.58)7$$

$$P_{15} = 55.5 + 4.06$$

$$P_{15} = 59.56$$

$$P_{40} = L_{vi} + \frac{(N_{40} - F_{aa})}{f}$$

$$P_{40} = \frac{25 \times 40}{100} = \frac{1000}{100} = 10$$

$$P_{40} = 76.5 + \frac{(10 - 14)}{9}$$

$$P_{40} = 76.5 + \frac{(3.50)}{9}$$

$$P_{40} = 76.5 + (0.39)7$$

$$P_{40} = 76.5 + 2.73$$

$$P_{40} = 79.23$$

$$P_{95} = L_{vi} + \frac{(N_{95} - F_{aa})}{f}$$

$$P_{95} = \frac{25 \times 95}{100} = \frac{2375}{100} = 23.75$$

$$P_{95} = 83.5 + \frac{(23.75 - 23)}{2}$$

$$P_{95} = 83.5 + \frac{(0.75)}{2}$$

$$P_{95} = 83.5 + (0.38)7$$

$$P_{95} = 83.5 + 2.66$$

$$P_{95} = 86.16$$

86.16