

**INSTITUTO PRIVADO
RAFAEL AREVALO MARTINEZ**



**CURSO:
ESTADISTICA**

**CATEDRATICO:
JOSUE ESTRADA**

**NOMBRE:
ZABDY ANDREA APEN GARCIA**

**GRADIO:
4TO. ADMON.**

TAREA #6 DE ESTADISTICA

Percentiles

Puntos Obtenidos por 25 alumnos en un examen de Estudios Sociales I de primero Básico

Intervalo	L _{vi}	f	f _{ac}
49 - 55	48.5	2	2
56 - 69	55.5	3	5
70 - 76	69.5	9	14
77 - 83	76.5	9	23
84 - 90	83.5	2	25

$$P_5 = L_{vi} + \left(\frac{\frac{N \times 5}{100} - f_{ac}}{f} \right) i$$

$$\frac{25 \times 5}{100} = 1.25$$

$$P_5 = 55.5 + \left(\frac{1.25 - 2}{3} \right) 7$$

$$P_5 = 55.5 + \left(\frac{-0.75}{3} \right) 7$$

$$P_5 = 55.5 + (-0.58) 7$$

$$P_5 = 55.5 + 4.06$$

$$P_5 = 59.56$$

$$P_{10} = L_{vi} + \left(\frac{\frac{N \times 10}{100} - f_{ac}}{f} \right) i$$

$$\frac{25 \times 10}{100} = 2.5$$

$$P_{10} = 76.5 + \left(\frac{2.5 - 14}{9} \right) 7$$

$$P_{10} = 76.5 + \left(\frac{-11.5}{9} \right) 7$$

$$P_{10} = 76.5 + (-1.28) 7$$

$$P_{10} = 76.5 + 8.96$$

$$P_{10} = 85.46$$

$$P_{95} = L_n + \left(\frac{N - f_{\text{cum}}}{f} \right) i$$

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

$$P_{95} = 83.5 + \left(\frac{23.75 - 23}{2} \right) 7$$

$$P_{95} = 83.5 + \left(\frac{0.75}{2} \right) 7$$

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

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

$$P_{95} = 86.16$$

