

Instituto **Privado Mixto**
“Rafael Arévalo Martínez”

Nombre: José Isaías Alvarado Ramos

Catedrático: Josué Estrada

Grado: 4to Bachillerato en Computación con
Orientación en Comercio

Sección: A

Ciclo Escolar: 2021

Lección 6

Notas obtenidas por 25 alumnos en un examen de estadística de primer Básico

Intervalo	L_i	f	f_a
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	7	30

$$P_x = L_{ri} + \left(\frac{N_x - f_{aa}}{100} \right) i$$

$$P_{15} = L_{ri} + \left(\frac{N_{15} - f_{aa}}{100} \right) i \quad \frac{25 \times 15}{100} = 3.75$$

$$P_{15} = 55.5 + \left(\frac{3.75 - 2}{2} \right) 7$$

$$P_{15} = 55.5 + (0.88) 7 \quad P_{15} = 55.5 + 6.16$$

$$P_{15} = 61.66$$

$$P_x = L_{ri} + \left(\frac{N_x - f_{aa}}{100} \right) i$$

$$P_{70} = L_{ri} + \left(\frac{N_x - f_{aa}}{100} \right) i \quad \frac{25 \times 70}{100} = 17.5$$

$$P_{70} = 76.5 + \left(\frac{17.5 - 14}{9} \right) 7$$

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

$$P_{70} = 79.23$$

$$V_x = Lr_i + \left(\frac{NX - f_{aa}}{100} \right) \frac{1}{f}$$

$$P_{95} = Lr_i + \left(\frac{N_{95} - f_{aa}}{100} \right) \frac{1}{f} \quad \frac{25 \times 95}{100} = 23.95$$

$$P_{95} = 83.5 + \left(\frac{23.95 - 23}{2} \right) \frac{1}{f}$$

$$P_{95} = 83.5 + (0.48) \frac{1}{f}$$

$$P_{95} = 83.95 + 3.36$$

$$P_{95} = 87.31$$

$$D_9 = Lr_i \left(\frac{100}{10} - 100 \right) \cdot \frac{25 \times 9}{10} = 22.5$$

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

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

$$D_9 = 76.5 + \left(0.94 \right) 7$$

$$D_9 = 76.5 + 6.58$$

$$D_9 = 83.08$$