

Instrucciones: Complete la siguiente tabla y calcule los percentiles 15, 70 y 95.

- Puntos obtenidos por 25 alumnos en un examen de estudios sociales 1ro Básico.

Intervalo	L _i	f	f _a
49 - 55	48.5	2	2
56 - 59	55.5	3	5
60 - 76	69.5	9	14
77 - 83	76.5	9	23
84 - 90	83.5	2	25

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

$$P_{70} = \frac{25 \times 70}{100} = 17.5$$

$$P_{15} = 55.5 + \frac{(3.75 - 2)}{3} \cdot 7$$

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

$$P_{15} = 55.5 + \frac{(1.75)}{3} \cdot 7$$

$$P_{70} = 76.5 + \frac{(3.5)}{9} \cdot 7$$

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

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

$$P_{15} = 55.5 + 4.1$$

$$P_{70} = 76.5 + 2.7$$

$$P_{15} = 59.6$$

$$P_{70} = 79.23$$

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

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

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

$$p_{95} = 83.5 + (0.38) \cdot 7$$

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

$$p_{95} = 86.16$$