



P15

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

$$(3.75 - 2) \div 2$$

$$75 \div 2$$

Tarea 6. Rafael Antonio Areaga

Calcular Percentiles 15, 40, 95

Puntos obtenidos por 25 alumnos
en un examen de estudios sociales
1º primario básico.

Intervalo	xi	F	F _q
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

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

$$\frac{3.75}{3} = 1.25$$

$$\frac{1.75}{3} = 0.58$$

P15

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

$$P15 = 55.5 + \frac{(3.75 - 2)}{3} \cdot 7$$

$$P15 = 55.5 + \frac{(1.75)}{3} \cdot 7$$

$$P15 = 55.5 + (0.58) \cdot 7$$

$$P15 = 55.5 + 4.1$$

$$P15 = 59.6$$

$$\frac{25 \times 15}{99} = 3.75$$

$$\frac{3.75}{3} = 1.25$$

$$\frac{1.75}{3} = 0.58$$

P70

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

$$P70 = 76.5 + \frac{(17.5 - 14)}{9} 7$$

$$P70 = 76.5 + \frac{(3.5)}{9} 7$$

$$P70 = 76.5 + (0.39) 7$$

$$P70 = 76.5 + 2.73$$

$$P70 = 79.23$$

P95

$$\frac{25 \times 95}{100} = 23,75$$

$$P95 = 83.5 + \frac{(23.75 - 23)}{2}$$

$$P95 = 83.5 + \frac{(0.75)}{2}$$

$$P95 = 83.5 + 10.38$$

$$P95 = 83.5 + 2.66$$

$$P95 = 86.16$$