

Tarea 6 Fernando David Pizaral
Calcular Percentiles 15, 70, 95

Puntos obtenidos por 25 alumnos en un examen de estudios sociales

Intervalo	Int	f	Fa
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

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

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

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

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

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

$$P_{15} = 59.6 //$$

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

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

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

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

$$P70 = 76.5 + 2.73$$

$$P70 = 79.23 //$$

P95

$$\frac{25 \times 95}{100} = \frac{(23.75)}{2}7$$

$$P95 = 83.5 + \frac{(23.75 - 23)}{2}7$$

$$P95 = 83.5 + \frac{(0.75)}{2}7$$

$$P95 = 83.5 + (0.38)7$$

$$P95 = 83.5 + 2.66$$

$$P95 = 86.16 //$$