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Área: Estadística Aplicada a la Educación

Grado: 5o Carrera: Magisterio de Educación Preprimaria

Actividad: Ejercicios de la semana 8 Plataforma

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Catedrático: Fredy Barrios

IMAGEN 1

Almana 8:

Hallar los percentiles 21 y 35

1) 28, 25, 30, 51, 60, 71, 49, 49, 58 = 9

21, 25, 28, 30, 49, 49, 51, 58, 60

$$P_{21} = \frac{21(9+1)}{100} = P_{21} = \frac{21(10)}{100} = \frac{210}{100} = 2.1$$

$$P_{21} = 25 + (28 - 25)(0.1)$$

$$P_{21} = 25 + (3)(0.1)$$

$$P_{21} = 25 + 0.3 = P_{21} = 25.3$$

$$P_{35} = \frac{35(9+1)}{100} = P_{35} = \frac{35(10)}{100} = \frac{350}{100} = 3.5$$

$$P_{35} = 28 + (30 - 28)(0.5)$$

$$P_{35} = 28 + (2)(0.5)$$

$$P_{35} = 28 + 1 = P_{35} = 29$$

2) 49, 24, 41, 12, 50, 80, 90, 23 = 8

12, 19, 23, 24, 41, 50, 80, 90

$$P_{21} = \frac{21(8+1)}{100} = P_{21} = \frac{21(9)}{100} = \frac{189}{100} = 1.89$$

$$P_{21} = 12 + (19 - 12)(0.89)$$

$$P_{21} = 12 + (7)(0.89)$$

$$P_{21} = 13.23$$

$$P_{21} = 12 + 6.14 = 18.14$$

$$P_{35} = \frac{35(8+1)}{100} = P_{35} = \frac{35(9)}{100} = \frac{315}{100} = 3.15$$

$$P_{35} = 23 + (24 - 23)(0.15)$$

$$P_{35} = 23 + (1)(0.15)$$

$$P_{35} = 23.15$$

$$P_{35} = 23 + 0.15 = 23.15$$

3) 34, 14, 12, 51, 47, 50, 62, 89, 49, 99, 101, 85

12, 14, 34, 47, 49, 50, 51, 62, 85, 89, 99, 101 = 12

$$P_{21} = \frac{21(12+1)}{100} = P_{21} = \frac{21(13)}{100} = \frac{273}{100} = 2.73$$

$$P_{21} = 14 + (34 - 14)(0.73)$$

$$P_{21} = 14 + (20)(0.73)$$

$$P_{21} = 14 + 14.6 = 28.6$$

$$P_{21} = 28.6$$

$$P_{35} = \frac{35(12+1)}{100} = P_{35} = \frac{35(13)}{100} = \frac{455}{100} = 4.55$$

$$P_{35} = 47 + (49 - 47)(0.55)$$

$$P_{35} = 47 + (2)(0.55)$$

$$P_{35} = 48.1$$

$$P_{35} = 47 + 1.1 = 48.1$$