

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

$$P_{35} = \frac{35(9)}{100}$$

$$P_{35} = \frac{315}{100}$$

$$P_{35} = 3.15$$

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

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

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

$$P_{35} = 23.15$$

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

Median

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

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

$$P_{21} = \frac{21(13)}{100}$$

$$P_{21} = \frac{273}{100}$$

$$P_{21} = 2.73$$

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

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

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

$$P_{21} = 28.6$$

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

$$P_{35} = \frac{35(13)}{100}$$

$$P_{35} = \frac{455}{100}$$

$$P_{35} = 4.55$$

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

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

$$P_{35} = 47 + 7.7$$

$$P_{35} = 48.7$$

Lección 7 Zúmmu

Hallar los percentiles 21 y 35 de los siguientes datos en agrupados.

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

Ordenados

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

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

$$P_{21} = 25(28-25)(0.1) = P_{21} = 25(3)(0.1) \quad P_{21} = 0.75 + 0.3 = 1.05$$

$$P_{21} = 25.3$$

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

$$P_{35} = 28(30-28)(0.5) \quad P_{35} = 28(2)(0.5) \quad P_{35} = 28 + 1 = 29$$

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

Ordenados

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

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

$$P_{21} = 12(19-12)(0.89) \quad P_{21} = 12(7)(0.89) \quad P_{21} = 12 + 6.23$$

$$P_{21} = 18.23$$