Instituto Privado

“Rafael Arévalo Martínez”

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Carrera: Magisterio de Educación Preprimaria **Grado:** 5to.

Curso: Estadística

Semana #7 Percentiles

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

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

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

$P = 25 + (28-25)(0.1) = 25 + (3)(0.1) = 0.3$

$P = 25 + 0.3 = 25.3$

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

$P = 28 + (30-28)(0.5) = P = 28 + (2)(0.5) = 1$

$P = 28 + 1 = 29$

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

$\frac{12}{21} - \frac{19}{23} - \frac{24}{35} - 41 - 50 - 80 - 90$

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

$P = 12 + (19 - 12)(0.89)$ $P = 12 + (7)(0.89) = 6.23$

$P_{21} = 12 + 6.23 = 18.23$

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

$P = 23 + (24 - 23)(0.15)$ $P = 23 + (1)(0.15) = 0.15$

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

c.) 34, 14, 12, 51, 47, 50, 62, 39, 49, 99, 101, 85

$12 - \frac{14}{21} - \frac{34}{35} - \frac{47}{49} - 50 - 51 - 62 - 85 - 89 - 99 - 101$

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

$P = 14 + (34 - 14)(0.73) = P = 14 + (20)(0.73) = 14.6$

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

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

$P = 47 + (49 - 47)(0.55) = P = 47 + (2)(0.55) = 1.1$

$P = 47 + 1.1 = 48.1$