

Actividad #7

Hallar los percentiles 21 y 35 de las siguientes series de datos no agrupados. Realizar procedimientos en el cuaderno, tomar foto y enviar mensaje en plataforma.

a) 28 25 30 51 60 21 49 49 58 12 9
 21 25 28 30 49 49 51 58 60
 $n = 9$ $PK \frac{(n+1)}{100}$

$$P = \frac{21(9+1)}{100}$$

$$P = \frac{35(9+1)}{100}$$

$$P = \frac{21(10)}{100}$$

$$P = \frac{35(10)}{100}$$

$$P = \frac{210}{100} = 2.10$$

$$P = \frac{350}{100} = 3.5$$

$$PK = 25 + (28 - 25)(0.1)$$

$$PK = 28 + (30 - 28)(0.5)$$

$$PK = 25 + (3)(0.1)$$

$$PK = 28 + (2)(0.5)$$

$$PK = 25 + 0.3$$

$$PK = 28 + 1$$

$$PK = 25.3$$

$$PK = 29$$

$$R// 25.3$$

$$R// 29$$

b) 19 24 41 12 50 80 90 23
 12 19 23 24 41 50 80 90
 $n = 8$ $P = \frac{K(n+1)}{100}$

$P = \frac{21(8+1)}{100}$ $P = \frac{35(8+1)}{100}$

$P = \frac{21(9)}{100}$ $P = \frac{35(9)}{100}$

$P = \frac{189}{100}$ $P = \frac{315}{100}$

$P = 1.89$ $P = 3.15$

$PK = 12 + (19 - 12)(0.89)$ $PK = 23 + (24 - 23)(0.15)$

$PK = 12 + (7)(0.89)$ $PK = 23 + (1)(0.15)$

$PK = 12 + 6.23$ $PK = 23 + 0.15$

$PK = 18.23$ $PK = 23.15$

PERCIL 21

PERCIL 35

18.23

23.15

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

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

$$n = 12$$

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

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

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

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

$$P = \frac{273}{100} > 2.73$$

$$P = \frac{455}{100} > 4.55$$

$$P_K = 14 + (34 - 14)(0.73)$$

$$P_K = 47 + (49 - 47)(0.55)$$

$$P_K = 14 + (20)(0.73)$$

$$P_K = 47 + (2)(0.55)$$

$$P_K = 14 + 14.6$$

$$P_K = 47 + 1.1$$

$$P_K = 28.6$$

$$P_K = 48.1$$

PERCIL 21

PERCIL 35

28.6

48.1