Nombre del alumno: Roblero Vázquez Paulo Sergio

Nombre del profesor: Jorge Enrique Albores

Nombre del trabajo: examen

Materia: estadística descriptiva

Grado: 3ro

Grupo: A-13 Administración Y Estrategias de negocios

Comitán de Domínguez Chiapas a 23 de junio del 2020.

Paolo Sergio Robero
Vazquez
Estadistica:

Cuartiles:
  Posición:

$$Q_3 = \frac{Kn}{4} = \frac{3 \cdot 44}{4} = 33$$

$$Q_3 = 65 + 10 \left(\frac{33-29}{35-29}\right)$$

$$Q_3 = 65 + 10 \left(\frac{4}{6}\right)$$

$$Q_3 = 65 + 6.66$$

$$Q_3 = 71.66$$

$F_{i-1} = 29$ $L_i = 65$
$F_i = 35$ $A = 10$

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Vazquez
Estadistica:

Cuartiles:

Posición: $\dfrac{Kn}{4} = \dfrac{1.44}{4} = 11$

$Fi-1 = 10 \qquad Li = 25$
$Fi = 13 \qquad A = Ls - Li = 10$

$Q_1 = 25 + 10 \left(\dfrac{11-10}{13-10}\right)$

$Q_1 = 25 + 10 \left(\dfrac{1}{3}\right)$

$Q_1 = 25 + 3.33$

$Q_1 = 28.33$

Q_2 posición $\dfrac{Kn}{4} = \dfrac{2.44}{4} = 22$

$Q_2 = 45 + 10 \left(\dfrac{22-19}{26-19}\right)$

$Q_2 = 45 + 10 \left(\dfrac{3}{7}\right)$

$Fi-1 = 19$
$Fi = 26$
$Li = 45$
$A = 10$

$Q_2 = 45 + 4.2857$

$Q_2 = 49.2857$

Pavlo Serbio Robero

Vazquez

Estadistica:

Percentiles:

$$P_5 = \frac{kn}{106} = \frac{5 \cdot 44}{100} = 2.2$$

$$Fi - 1 = 0 \qquad Li = 15$$
$$Fi = 10 \qquad A = 10$$

$$P_5 = 15 + 10 \left(\frac{2.2 - 0}{10 - 0} \right)$$

$$P_5 = 15 + 2.2$$

$$\underline{\underline{P_5 = 17.2}} \quad /\!/\!/$$

$$P_{22} = \frac{kn}{100} = \frac{22.44}{100} = 9.68$$

$$Fi - 1 = 0 \qquad Li = 15$$
$$Fi = 10 \qquad A = 10$$

$$P_{22} = 15 + 10 \left(\frac{9.68 - 0}{10 - 0} \right)$$

$$P_{22} = 15 + 16 \left(\frac{9.68}{10} \right)$$

$$P_{22} = 15 + 9.68$$

$$\underline{\underline{P_{22} = 24.68}} \quad /\!/\!/$$

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Estadistica:

Persentiles %

$P_{35} = \dfrac{Kn}{100} = \dfrac{35 \cdot 44}{100} = 15.4$

$F_{i-1} = 13$

$F_i = 19$

$L_i = 35$

$A = 16$

$P_{35} = 35 + 16 \left(\dfrac{15.4 - 13}{19 - 13} \right)$

$P_{36} = 35 + 10 \left(\dfrac{2.4}{6} \right)$

$P_{35} = 35 + 4$

$P_{35} = 39$ ⫽

$P_{41} = \dfrac{41.44}{100} = 18.04$

$P_{41} = 35 + 10 \left(\dfrac{18.04 - 13}{19 - 13} \right)$

$P_{41} = 35 + 10 \left(\dfrac{5.04}{6} \right)$

$P_{41} = 35 + 8.4$

$P_{41} = 43.4$ ⫽

$P_{66} = \dfrac{66.44}{100} = 29.04$

$F_{i-1} = 29 \quad L_i = 65$

$F_i = 35 \qquad A = 10$

$P_{66} = 65 + 10 \left(\dfrac{29.04 - 29}{35 - 29} \right)$

$P_{66} = 65 + 10 \left(\dfrac{0.04}{6} \right)$

$P_{66} = 65 + 0.0666$

$P_{66} = 65.666$ ⫽

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Estadistica
Deciles:

$D_6 = \dfrac{kn}{10} = \dfrac{6.44}{10} = 26.4$

$Fi - 1 = 26 \qquad Li = 55$

$Fi = 29 \qquad A = 10$

$D_6 = 55 + 10 \left(\dfrac{0.4}{3} \right)$

$D_6 = 55 + 1.33$

$\underline{D_6 = 56.33}$ //

$D_9 = \dfrac{kn}{10} = \dfrac{8.44}{10} = 35.2$

$Fi - 1 = 35 \qquad Li = 75$

$Fi = 44 \qquad A = 10$

$D_8 = 75 + 10 \left(\dfrac{35.2 - 35}{44 - 35} \right)$

$D_8 = 75 + 10 \left(\dfrac{0.2}{9} \right)$

$D_8 = 75 + 0.22$

$\underline{D_8 = 75.22}$ //

P35

P16 =

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Estadística:

Deciles:

$D_2 = \dfrac{Kn}{10} = \dfrac{2.44}{10} = 8.8$

$Fi - 1 = 6 \qquad Li = 15$

$Fi = 10 \qquad A = 10$

$D_2 = 15 + 10 \left(\dfrac{8.8 - 10}{10 - 0} \right)$

$D_2 = 15 + 10 \left(\dfrac{8.8}{10} \right)$

$D_2 = 15 + 8.8$

$D_2 = 23.8$ ///

$D_4 = \dfrac{Kn}{10} = \dfrac{4.44}{10} = 17.6$

$Fi - 1 = 13 \qquad Li = 35$

$Fi = 19 \qquad A = 10$

$D_4 = 35 + 10 \left(\dfrac{17.6 - 13}{19 - 13} \right)$

$D_4 = 35 + 10 \left(\dfrac{4.6}{6} \right)$

$D_4 = 42.66$ ///