

Juan Eduardo Jimenez Gomez

Intervalo	f <sub>i</sub>	F <sub>i</sub>
15-25	10	10
25-35	3	13
35-45	6	19
45-55	7	26
55-65	3	29
65-75	6	35
75-85	9	44

Coartiles 1, 2, 3

Deiles 2, 4, 6, 8

Percentiles 5, 22, 35, 41, 66

Posición  $\frac{K_n}{4} = \frac{1 \cdot 44}{4} = 11$

Posición  $\frac{K_n}{4} = \frac{2 \cdot 44}{4} = 22$

Posición  $\frac{K_n}{4} = \frac{3 \cdot 44}{4} = 33$

$Q_1 = 25 + 10 \left( \frac{11 - 10}{13 - 10} \right)$      $Q_2 = 45 + 10 \left( \frac{22 - 19}{26 - 19} \right)$      $Q_3 = 65 + 10 \left( \frac{33 - 29}{35 - 29} \right)$

$Q_1 = 25 + 10 \left( \frac{1}{3} \right)$      $Q_2 = 45 + 10 \left( \frac{3}{7} \right)$      $Q_3 = 65 + 10 \left( \frac{4}{6} \right)$

$Q_1 = 25 + 3.33$      $Q_2 = 45 + 4.2857$      $Q_3 = 65 + 6.66$

$Q_1 = 28.33$      $Q_2 = 49.2857$      $Q_3 = 71.66$

$\frac{K_n}{10} = \frac{2 \cdot 44}{10} = 8.8$

$D_2 = 15 + 10 \left( \frac{8.8 - 6}{10 - 6} \right)$

$D_2 = 15 + 10 \left( \frac{2.8}{4} \right)$

$D_2 = 15 + 7.0$

$D_2 = 22.0$

$\frac{K_n}{10} = \frac{4 \cdot 44}{10} = 17.6$

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

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

$D_4 = 35 + 7.66$

$\frac{K_n}{10} = \frac{8 \cdot 44}{10} = 35.2$

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

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

$D_8 = 75 + 0.22$

$D_8 = 75.22$

$\frac{K_n}{10} = \frac{6 \cdot 44}{10} = 26.4$

$D_6 = 55 + 10 \left( \frac{26.4 - 26}{29 - 26} \right)$

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

$D_6 = 55 + 1.33$

$D_6 = 56.33$

$$\frac{K_n}{100} = \frac{5 \cdot 44}{100} = 2.2$$

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

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

$$P_5 = 15 + 2.2$$

$$P_5 = 17.2$$

$$\frac{K_n}{100} = \frac{22 \cdot 44}{100} = 9.68$$

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

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

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

$$P_{22} = 24.68$$

$$\frac{K_n}{100} = \frac{35 \cdot 44}{100} = 15.4$$

$$P_{35} = 35 + 10 \left( \frac{15.4 - 13}{19 - 13} \right)$$

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

$$P_{35} = 35 + 4$$

$$P_{35} = 39$$

$$\frac{K_n}{100} = \frac{41 \cdot 44}{100} = 18.04$$

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

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

$$P_{41} = 35 + 8.4$$

$$P_{41} = 43.4$$

$$\frac{K_n}{100} = \frac{66 \cdot 44}{100} = 29.04$$

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

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

$$P_{66} = 65 + .0666$$

$$P_{66} = 65.0666$$

Raul Eduardo  
Jimenez Gomez