Julia Gutierrez. #8

~~70~~-~~66~~-~~72~~-~~75~~-~~74~~-~~81~~-~~76~~-~~75~~-~~78~~-~~76~~-~~65~~-~~77~~-~~81~~

~~80~~-~~72~~-~~90~~-~~81~~-~~81~~-~~72~~-~~66~~-~~55~~-~~49~~-~~84~~-~~79~~-~~83~~

49 - 55 - 65 - 66 - 66 - 70 - 72 - 72 - 72

74 - 75 - 75 - 76 - 76 - 77 - 78 - 79 - 80

81 - 81 - 81 - 81 - 83 - 84 - 90

k = 1 + 3.322 Long (n) k = 1 + 3.322 Long (25)

k = 1 + 3.322 (1.39794) k 1 + 4.643

k = 5.64

R = Dma - Dme + 1 R = 90 - 49 + 1 =

R = 41 + 1 = 42

$I = \frac{R}{k}$ $I = \frac{42}{5.64} = 7.44$

k	L - A	Lri	Lrs	xs	f	fa
1	49 55	48.5	55.5	52	2	2
2	56-62	55.5	62.5	59	0	2
3	63-69	62.5	69.5	66	2	4
4	70-76	69.5	76.5	73	9	13
5	77-83	76.5	83.5	80	9	22
6	84-90	83.5	90.5	87	2	24

fxs
104
0
198
657
720
174
1853

$$\bar{x} = \frac{\sum fxs}{N} \qquad \bar{x} = \frac{1853}{25} = 74.12$$

$$Mo = Lri + \left(\frac{\Delta_1}{\Delta_1 . \Delta_2}\right) i$$

$\Delta_1 = 9 - 3 = 6$

$\Delta_2 = 9 - 9 = 0$

$$MO = 69.5 + \left(\frac{6}{6+0}\right) 7$$

$MO = 76.5$

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$\Delta_1 = 9 - 9 = 0$ $\Delta_2 = 9 - 2 = 7$ $Mo = L_i + \left(\frac{\Delta_1}{\ldots}\right.$

$Mo = 76.5$

$D_1 = L_i + \left(\frac{\frac{N_1}{10} + fac}{f}\right) i$ $\frac{24 \times 1}{10} = 2.4$

$D_1 = 62.5 + \left(\frac{2.4 + 2}{2}\right) 7$ $D_1 = 62.5 + \left(\frac{0.4}{2}\right) 7$

$D_1 = 62.5 + (0.2) 7$ $D_1 = 62.5 + 1.4$

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$D_1 = 63.9$ //

$D_2 = L_i + \left(\frac{\frac{N_2}{10} + fac}{f}\right) i$ $\frac{24 \times 2}{10} = 4.8$

$D_2 = 69.5 + \left(\frac{4.8 + 4}{9}\right) 7$ $D_2 = 69.5 \left(\frac{8.8}{9}\right) 7$

$D_2 = 69.5 (0.98) 7$ $D_2 = 6.86 + 69.5 = 76.3$

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$D_3 = Li \left(\frac{\frac{N3}{10} - Fa}{f} \right) i$ $\qquad \frac{24 \times 3}{10} = 7.2$

$D_3 = 69.5 + \left(\frac{7.2 + 4}{9} \right) 7$ $\qquad D_3 = 69.5 \left(\frac{11.2}{9} \right) 7$

$D_3 = 69.5 + (1.24) 7$ $\qquad D_3 = 69.5 + 8.68 =$

$D_3 = 82.68$ //

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$Q_1 = Lri + \left(\frac{N/4 - Faa}{f}\right)i$ $\quad = 24 \div 4 = 6$

$Q_1 = 62.5\left(\frac{6-2}{2}\right)7$ $\quad Q_1 = 62.5\left(\frac{4}{2}\right)7$

$Q_1 = 62.5(2)7$ $\quad Q_1 = 62.5 + 14 = 76.54.$

$Q_1 =$ ~~76.54~~ (~~48.5//~~)

$Q_2 = Lri + \left(\frac{\frac{2N}{4} - Faa}{f}\right)i$ $\quad \frac{2 \times 24}{4} = 12$

$Q_2 = 62.5 + \left(\frac{12-2}{2}\right)7$ $\quad Q_2 = 62.5 + \left(\frac{10}{2}\right)7$

$Q_2 = 62.5 + (5)7$ $\quad Q\,62.5 + 35 = 97.5$

$Q_2 = 97.5//$

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$D_3 = Li + \left(\frac{\frac{N3}{10} - (fa_i)}{f}\right) i$ $\frac{24 \times 3}{10} = 7.2$

$D_3 = 69.5 + \left(\frac{7.2 + 4}{9}\right) 7$ $D_3 = 69.5 \left(\frac{11.2}{9}\right) 7$

$D_3 = 69.5 + (1.24) 7$ $D_3 = 69.5 + 8.68 =$

$D_3 = 82.68N$

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$Q_1 = Li + \left(\frac{N/4 - Fa}{f}\right) i$ $\qquad 24 \div 4 = 6$

$Q_1 = 62.5 \left(\frac{6 - 2}{2}\right) 7$ $\qquad Q_1 = 62.5 \left(\frac{4}{2}\right) 7$

$Q_1 = 62.5 (2) 7$ $\qquad Q_1 = 62.5 + 14 = 76.54.$

$Q_1 =$ ~~76.54~~ (~~48.5~~//)

$Q_2 = Li + \left(\frac{2N/4 - Fa}{f}\right) i$ $\qquad \frac{2 \times 24}{4} = 12$

$Q_2 = 62.5 + \left(\frac{12 - 2}{2}\right) 7$ $\qquad Q_2 = 62.5 + \left(\frac{10}{2}\right) 7$

$Q_2 = 62.5 + (5) 7$ $\qquad Q\ 62.5 + 35 = 97.5$

$Q_2 = 97.5$//

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$D_3 = L_i + \left(\frac{\frac{N3}{10} - F_{(ai)}}{f}\right) i$ $\frac{24 \times 3}{10} = 7.2$

$D_3 = 69.5 + \left(\frac{7.2 + 4}{9}\right) 7$ $D_3 = 69.5 \left(\frac{11.2}{9}\right) 7$

$D_3 = 69.5 + (1.24) 7$ $D_3 = 69.5 + 8.68 =$

$D_3 = 82.68N$

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$Q_3 = Li + \left(\frac{\frac{3n}{4} - Faa}{f} \right) i$ $\frac{3 \times 24}{4} = 18$

$Q_3 = 69.5 \left(\frac{18 - 4}{9} \right) 7$ $Q_3 = 69.5 \left(\frac{14}{9} \right) 7$

$Q_3 = 69.5 (1.56) 7$ $Q_3 = 69.5 + 10.92 =$

$Q_3 = 80.4211$

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$P_x = Li + \left(\frac{Nx/100 - Fac}{f}\right)7$ $\frac{25 \times 17}{100} = 4.25$

$P_{17} = 69.5\left(\frac{4.25-4}{9}\right)7$ $P_x = 69.5\left(\frac{0.25}{9}\right)7$

$P_{17} = 69.5(0.06)7$ $P_{17} = 69.5 + 0.42$

$P_{17} = 69.92$ //

$P_x = Li + \left(\frac{Nx/100 - Fac}{f}\right)7$ $\frac{25 \times 70}{100} = 17.5$

$P_x = 69.5\left(\frac{17.5-4}{9}\right)7$ $P_x = 69.5\left(\frac{13.5}{9}\right)7$

$P_{70} = 69.5(1.5)7$ $P_{70} = 69.5 + 10.5 =$

$P_{70} = 80$ //

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$P_x = L_i + \left(\frac{nx/100 - F_a}{f}\right)7$ $\frac{24 \times 95}{100} =$

$P_{95} = 83.5\left(\frac{22.8 - 22}{2}\right)7$ $P_x = 83.5\left(\frac{0.8}{2}\right)7$

$P_{95} = 83.5\,(0.04)7$ $P_x = 83.5 + 0.09$

$P_{95} = 83.594$

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