

Nama : Rizki Putra Ramadhan
 NIM 12221436
 Kelas : 12.3B.35
 Matakuliah : 700 Statistika
 Dosen : Husni Mubarak, M.Si
 Kirim E-mail Soal dan jawaban : husni.hub@bsi.ac.id dan Link Upload ke MyBest

A. Jawaban

1. B
2. B
3. C

Diketahui : Ditanya :

$L_{mo} = 59,5$ $d_1 = 4$ Mod = ?

$c = 10$ $d_2 = 3$

Jawab :

$$\begin{aligned}\text{Mod} &= L_{mo} + \frac{d_1 \cdot c}{d_1 + d_2} \\ &= 59,5 + \frac{4 \cdot 10}{4 + 3} \\ &= 59,5 + \frac{40}{7} \\ &= 59,5 + 5,7 \\ &= 65,21\end{aligned}$$

4. A
5. D
6. C

Diketahui : Ditanya :

$S^2 = 144$ (S) = ?

Jawab :

$$\begin{aligned}(S) &= \sqrt{S^2} \\ &= \sqrt{144} \\ &= 12\end{aligned}$$

7. E

Diketahui : Ditanya :

50, 40, 30, 60, 70 Range = ?

Jawab :

$$\begin{aligned}\text{Range} &= \text{Nilai Max} - \text{Nilai Min} \\ &= 70 - 30 \\ &= 40\end{aligned}$$

8. B
9. B

Diketahui : Ditanya :

$L_m = 59,5$ $c = 10$ $\Sigma f = 18$ Med = ?

$f_m = 12$ $N = 50$

Jawab :

$$\begin{aligned}\text{Med} &= L_m + \frac{(N/2 - \Sigma f) \cdot c}{f_m} \\ &= 59,5 + \frac{(50/2 - 18) \cdot 10}{12}\end{aligned}$$

$$\begin{aligned}
 &= 59,5 + \frac{70}{12} \\
 &= 59,5 + 5,8 \\
 &= 65,3
 \end{aligned}$$

10. D

Diketahui :

Ditanya :

$$L_Q = 73,65 \quad c = 0,30 \quad \Sigma f = 70 \quad Q_3 = ?$$

$$f_Q = 5 \quad N = 100$$

Jawab :

$$\begin{aligned}
 Q_i &= L_Q + \frac{(iN/4 - \Sigma f) \cdot c}{f_Q} \\
 Q_3 &= 73,65 + \frac{(3 \cdot 100/4 - 70) \cdot 0,30}{5} \\
 &= 73,65 + \frac{(300/4 - 70) \cdot 0,30}{5} \\
 &= 73,65 + \frac{(75 - 70) \cdot 0,30}{5} \\
 &= 73,65 + \frac{5 \cdot 0,30}{5} \\
 &= 73,65 + \frac{5 \cdot 0,30}{5} \\
 &= 73,65 + \frac{1,5}{5} \\
 &= 73,95 \\
 &= 73,8 \text{ (Simplified)}
 \end{aligned}$$