Tugas Materi 09

Anggota kelompok :

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6. Berapa harga R, R10-90, RAK & RSAK dari distribusi data dibawah ini? Dan berikan kesimpulannya

|  |  |  |
| --- | --- | --- |
| **Interval nilai** | **Frekuensi (f)** | **Frekuensi kumulatif (fk)** |
| 41 – 45 | 3 | 3 |
| 46 – 50 | 8 | 11 |
| 51 – 55 | 15 | 26 |
| 56 – 60 | 25 | 51 |
| 61 – 65 | 21 | 72 |
| 66 – 70 | 17 | 89 |
| 71 – 75 | 11 | 100 |
| **Total** | 100 |  |

1. R = Xtertinggi – Xterendah

= 75 – 41

= 34

1. R10-90?

R10-90 = P90 – P10

P = Tb + i x n - cf

100 x I

fd

P90 = 70.5 + 90 x 100 - 89

100 x 5

11

= 70.5 + (0.090) x 5

= 70.5 + 0.45

= 70.9

P10 = 45.5 + 10 x 100 - 3

100 x 5

8

= 45.5 + (0.8750) x 5

= 45.5 + 4.375

= 49.8

Jadi, R10-90 = P90 – P10

= 70.9 – 49.8

= 21.1

1. RAK & RSAK

RSAK = 1 x (K3 – K1)

2

K = Tb + i x n - cf

4 x I

f

K1 = 50.5 + 1 x 100 - 11

4 x 5

15

= 50.5 + (0.93) x 5

= 50.5 + 4.65

= 55.15

K3 = 65.5 + 3 x 100 – 72

4 x 5

17

= 65.5 + 0.176 x 5

= 65.5 + 0.88

= 66.38

Jadi RSAK = 1 x (K3-K1)

2

= 1 x (66.38 – 55.15)

2

= 1/2 x 11.23

= 5.615

Dan RAK = 11.23

Jadi harga range dari distribusi data diatas menghasilkan harga R = 34 ; R10 – 90 = 21.1 ; RAK & RSAK = 66.38 & 5.615

1. Harga rata-rata deviasi dari data berikut adalah

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nilai | F | Fx | Xi – X” | F (Xi –X”) |
| 11 | 3 | 33 | 2.25 | 6.75 |
| 12 | 5 | 60 | 1.25 | 6.25 |
| 13 | 4 | 52 | 0.25 | 1 |
| 14 | 2 | 28 | 0.75 | 1.5 |
| 15 | 4 | 60 | 1.75 | 7 |
| 16 | 2 | 32 | 2.75 | 5.5 |
| Total | 20 | 265 |  | 28 |

Rata-rata = Fx

F

= 265

20

= 13.25

Rata-rata deviasi = Ʃ f | Xi – X |

Ʃf

= 28

20

= 1.4