**Tugas 2 - Statistika**

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Kelas : 2G – TI

No.Absen : 26

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Tentukan mean, median, dan modus dari data berikut ini.

|  |  |
| --- | --- |
| 𝒙 | 𝒇 |
| 5 – 9 | 4 |
| 10 – 14 | 9 |
| 15 – 19 | 16 |
| 20 – 24 | 12 |
| 25 – 29 | 6 |
| 30 – 34 | 3 |

1. Mean

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 𝒙 | 𝒇 |  | xi | Xi.f |
| 5 – 9 | 4 | 7 |  | 28 |
| 10 – 14 | 9 | 12 |  | 108 |
| 15 – 19 | 16 | 17 |  | 272 |
| 20 – 24 | 12 | 22 |  | 264 |
| 25 – 29 | 6 | 27 |  | 162 |
| 30 – 34 | 3 | 32 |  | 96 |
| Total |  | |  | 930 |

Mean =

=

= 18,6

1. Median

|  |  |  |
| --- | --- | --- |
| 𝒙 | 𝒇 | fk |
| 5 – 9 | 4 | 4 |
| 10 – 14 | 9 | 13 |
| 15 – 19 | 16 | 29 |
| 20 – 24 | 12 | 41 |
| 25 – 29 | 6 | 47 |
| 30 – 34 | 3 | 50 |

n = 50

Tb = 15 – 0,5 = 14,5

fi = 16

fk = 13

l = 5

Median = Tb + l

= 14,5 + 5

= 14,5 + 5

= 14,5 + 5

= 14,5 + 3,75

= 18,25

1. Modus

|  |  |
| --- | --- |
| 𝒙 | 𝒇 |
| 5 – 9 | 4 |
| 10 – 14 | 9 |
| 15 – 19 | 16 |
| 20 – 24 | 12 |
| 25 – 29 | 6 |
| 30 – 34 | 3 |

b = 15 – 0.5 = 14.5

b1 = 16 – 9 = 7

b2 = 16 – 12 = 4

p = 5

Mo = b + p

= 14,5 + 5

= 14,5 + 5

= 14.5 + 3,18

= 17,68