

Nama : Firman Hasan

Kelas: 03TPLM004

NIM: 221011402266

No

Date

1. 22 10 11 40 22 66

2, 2, 2, 2, 1, 1, 1, 4, 4, 4, 4, 2, 2, 2, 2, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6

* Rata-rata

$$x = \frac{2+2+2+2 + 1+1+1 + 4+4+4+4 + 2+2+2+2 + 6+6+6+6+6+6 + 6+6+6+6+6+6}{27}$$

$$= \frac{107}{27}$$

$$= 3,962 //$$

* Median

$$me = x \left(\frac{n+1}{2} \right)$$

$$= x \left(\frac{27+1}{2} \right)$$

$$= x \left(\frac{28}{2} \right)$$

$$= x \quad 14$$

data ke - 14

$1, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 4, \textcircled{4}, 4, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6$

\downarrow
median = 4 //

* Modus

1, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 4, 4, 4, 4, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
mo = 6 //

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NIM: 221011402266 Statistika dan Probabilitas

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Nilai	F	x_1	$x_1 \cdot F$
1-7	2	4	8
8-14	2	11	22
15-21	1	18	18
22-28	1	25	25
29-35	1	32	32
36-42	4	39	156
43-49	2	46	92
50-56	2	53	106
57-63	6	60	360
64-70	6	67	402
	27	355	1221

$$\begin{aligned} * \text{Rata-rata} &= \frac{1221}{27} \\ &= 45,222 \end{aligned}$$

Nilai	F	F. kumulatif
1-7	2	2
8-14	2	4
15-21	1	5
22-28	1	6
29-35	1	7
36-42	4	11
43-49	2	13
50-56	2	15
57-63	6	21
64-70	6	27

$$\begin{aligned} \text{Data} &= \frac{27+1}{2} = \frac{28}{2} \\ &= 14 \quad (50-56) \end{aligned}$$

$$\begin{aligned} t_b &= 50 - 0,5 \\ &= 49,5 \end{aligned}$$

$$\begin{aligned} i &= 70 - 64 \\ &= 6 \end{aligned}$$

$$\begin{aligned} n \cdot \text{Frekuensi} &= 2+2+1+1+1+4+2+2+6+6 \\ &= 27 \end{aligned}$$

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* Median

$$me = tb + \left(\frac{\frac{n}{2} - F.kom}{F} \right) \cdot i$$

$$= 49,5 + \left(\frac{\frac{27}{2} - 15}{2} \right) \cdot 6$$

$$= 49,5 + \left(\frac{13,5 - 15}{2} \right) \cdot 6$$

$$= 49,5 + (-0,75) \cdot 6$$

$$= 49,5 - 4,5$$

$$= 45_{//}$$

* Modus

$$mo = tb + \left(\frac{d1}{d1 + d2} \right) \cdot p$$

$$= (57 - 0,5) + \left(\frac{6 - 2}{6 - 2 + 6 - 6} \right) \cdot 7$$

$$= 56,5 + \frac{4}{4} \cdot 7$$

$$= 56,5 + 7$$

$$= 63,5$$

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$$M_0 = +6 + \left(\frac{d_1}{d_1 + d_2} \right) \cdot P$$

$$= (64 - 0,5) + \left(\frac{6-6}{6-6+6-0} \right) \cdot 7$$

$$= 63,5 + \frac{0}{6} \cdot 7$$

$$= 63,5 + 0$$

$$= 63,5 //$$