No.

Date:

Nama : GLEN. AGUH

Nim : 21024181

kelas : 3 TI 4

1. a) * mean $= \frac{\sum_{i=1}^{n} x_i}{n}$

$= \frac{3+9+6+9+8+1+9+5+6+5+5+5+2+4+8+1+1+1+8}{19}$

$= \frac{96}{19} = 5.0526$

* modus = 1, 5

* median $= \frac{x_{n+1}}{2} = \frac{x_{19+1}}{2} = \frac{x_{20}}{2} = x_{10}$ → data ke 10

median / nilai tengahnya 5

b) * kuartil

$k_1 = \frac{1(19+1)}{4} = \frac{20}{4} = k_1 = 5$ → data ke 5, yaitu 8

$k_2 = \frac{2(19+1)}{4}$

$= \frac{40}{4} = k_2 = 10$ → data ke 10, yaitu 5

$k_3 = \frac{3(19+1)}{4} = k_3 = \frac{60}{4} = 15$ data → data ke 15, yaitu 8

No.

Date:

* Desil

$D_1 = \frac{1(19+1)}{10} = \frac{20}{10} = 2 \rightarrow$ data ke 2, yaitu 2

$D_2 = \frac{2(19+1)}{10} = \frac{40}{10} = 4 \rightarrow$ data ke 4, yaitu 9

$D_3 = \frac{3(19+1)}{10} = \frac{60}{10} = 6 \rightarrow$ data ke 6, yaitu 1

$D_4 = \frac{4(19+1)}{10} = \frac{80}{10} = 8 \rightarrow$ data ke 8, yaitu 5

$D_5 = \frac{5(19+1)}{10} = \frac{100}{10} = 10 \rightarrow$ data ke 10, yaitu 5

$D_6 = \frac{6(19+1)}{10} = \frac{120}{10} = 12 \rightarrow$ data ke 12, yaitu 5

$D_7 = \frac{7(19+1)}{10} = \frac{140}{10} = 14 \rightarrow$ data ke 14, yaitu 4

$D_8 = \frac{8(19+1)}{10} = \frac{160}{10} = 16 \rightarrow$ data ke 16, yaitu 1

$D_9 = \frac{9(19+1)}{10} = \frac{180}{10} = 18 \rightarrow$ data ke 18, yaitu 1

banyak nilai = 1

2.

	nilai										Rentang	variansi
nilai 1	25	67	5	8	9	23	1	22	34		66	21,5
nilai 2	25	24	28	22	23	22	23	25	24		3	2,4
nilai 3	31	30	56	43	67	21	4	5	1		66	28,6
nilai 4	67	90	121	67	12	45	56	71	8		113	59,6
nilai 5	60	63	62	61	61	62	60	60	61		3	61,1

Rentang

- nilai 1 = nilai max − nilai min = 67 − 1 = 66
- nilai 2 = 25 − 22 = 3
- nilai 3 = 67 − 1 = 66

No.

Date:

- nilai 4 = 121 - 8 = 113
- nilai 5 = 63 - 60 = 3

Variance

$$S^2 = \frac{|x - \bar{x}|^2}{n-1}$$

$$\bar{x} \text{ nilai } 1 = \frac{25+67+5+8+9+23+1+22+34}{9} = 21,5$$

$$\bar{x} \text{ nilai } 2 = \frac{25+24+23+22+23+22+23+25+24}{9} = 23,4$$

$$\bar{x} \text{ nilai } 3 = \frac{31+30+56+43+67+21+4+5+1}{9} = 28,6$$

$$\bar{x} \text{ nilai } 4 = \frac{67+90+121+67+12+45+56+71+8}{9} = 59,6$$

$$\bar{x} \text{ nilai } 5 = \frac{60+63+62+61+61+62+60+60+61}{9} = 61,1$$

* S^2 nilai 1 $= \frac{|25-21,5|^2 + |67-21,5|^2 + |5-21,5|^2 + |8-21,5|^2 + |1-21,5|^2 + |22-21,5|^2 + |34-21,5|^2 + |9-21,5|^2 + |23-21,5|^2}{9-1}$

S^2 nilai 1 = 409,03125

* S^2 nilai 2 $= |25-23,4|^2 + |67-21,5|^2 + |5-21,5|^2 + |8-21,5|^2 + |9-21,5|^2 + |23-21,5|^2 + |1-21,5|^2 + |22-21,5|^2 + |34-21,5|^2$

No.

Date:

S^2 mbr 2 = 1,28

* S^2 mbr 3 = $\frac{|31-28,6|^2 + |56-28,6|^2 + |43-28,6|^2 + |67-28,6|^2 + |21-28,6|^2 + |14-28,6|^2 + |5-28,6|^2 + |1-28,6|^2}{8}$

S^2 mbr 3 = 552,755

* S^2 mbr 4 = $\frac{|67-59,6|^2 + |90-59,6|^2 + |121-59,6|^2 + |87-59,6|^2 + |112-59,6|^2 + |45,59,6|^2 + |56,89,6|^2 + |17|59,6|^2 + |8-59,6|^2}{8}$

S^2 mbr 4 = 1261,005

* S^2 mbr 5 = $\frac{|60-61,1|^2 + |63-61,1|^2 + |62-61,8|^2 + |61-61,2|^2 + |61-61,1|^2 + |62-61,1|^2 + |60-61,1|^2 + |60-61,1|^2 + |61-61,1|^2}{8}$

S^2 mbr 5 = 1,11125

* Standar deviasi

mbr ~~0~~ 1 = $\sqrt{409,03125}$ = 20,22452

mbr 2 = $\sqrt{1,28}$ = ~~1,1315~~ 1,13137

mbr 3 = $\sqrt{552,755}$ = 23,51074

mbr 4 = $\sqrt{1261,005}$ = 35,50663

mbr 5 = $\sqrt{1,11125}$ = 1,05416