





STATISTIKA

AIK21323

SEMESTER 2

PEMBAHASAN UTS STATISTIKA 2017/2018

- 1) Skala pengukuran data:
 - 1) Skala Nominal (untilk kategorisah , tanpa menunjukkan adanya fingkatan)
 - ex: · Jenis kelamin , misal laki diben simbol 1 , perempuan diben simbol 2
 - · Status pernikahan , misal 1 untuk belum menikah , 2 untuk menikah , 3 untuk duda / janda
 - 2) Skala Ordinal (menyatakan peringkat, interval fidak harus sama)
 - ex: · Nilai huruf di perkuliahan (A,B,C,D,E)
 - · Vanabel sikap terhadap sudhi pernyataan (setiju, tidak sehiju, dsb.)
 - 3) Skala Interval (menyatakan peningkat, interval sama)
 - ex: · Suhu (0°C, 12°F, dsb.)
 - · SKOT 1Q
 - 4) Skala Ratio (hasil pengukuran)
 - ex: . Jarak (10 m, 120 km)
 - · Berat badan (40 kg, 50 kg)
- 2 Data: 27, 30, 31, 34, 35, 36, 40, 41, 41, 44, 45, 45, 45, 46, 48, 59, 67, 69, 72, 85

×i	fi	(x; -4)
27	1	400
30	ı	289
31	1	256
34	1	169
35	1	144
36	1	121
40	ſ	49
41	2	72
44	1	9
45	3	12
46	1	1
48	1	1
59	1	1214
67	1	400
69	ī	484
72	(625
85	1	144
940	20	4620

$$\sim M = \frac{940}{20} = 47$$

• median =
$$\frac{44 + 41}{2} = \frac{89}{2} = 4415$$

. variansi = ?
$$6^{2} = \frac{\sum (x_{i} - \mu_{i})^{2}}{N}$$

$$6^{2} = \frac{4620}{N}$$

· Koefisten variant = ?

$$kV = \frac{6}{4} \times 100\%$$
 $kV = \frac{\sqrt{231}}{47} \times 100\%$

(3)
$$m_i$$
 | f_i | f_k | $m_i f_i$ | $m_i - \bar{x}$ | $m_i - \bar{x}$ | $m_i - \bar{x}$ | f_i | $m_i - \bar{x}$ | f_i |

. Mo = bmo +
$$\frac{dI}{di + dz}$$
 P = 160 is + $\frac{22}{22 + 16}$ = 160 is + $\frac{22}{38}$ = 160 is + 2,89 = 163,39

• Me =
$$bme + \frac{n/2}{fme} - fkm p = 160,5 + \frac{50 - 25}{42}.5$$

$$= 160,5 + \frac{25}{42}.5$$

$$= 160,5 + 2,98$$

$$= 163,48$$

$$S^2 = ?$$

~ tabel dengan skala d

$$\int_{-2}^{2} \left(2 \left(\frac{100}{n} \left(\frac{100}{n} \right)^{2} \right) \right)$$

$$= \int_{-2}^{2} \left(\frac{100}{100} \left(\frac{94}{94} \right) - \frac{10^{2}}{100} \right)$$

$$= 25 \cdot \left(\frac{9400 - 100}{9900} \right)$$

$$= 25 \cdot 0.94$$

$$\int_{-2}^{2} \left(\frac{9400 - 100}{9900} \right)$$

$$VV = \frac{S}{X} \times 100\%$$

$$= \frac{\sqrt{23.5}}{163.5} \times 100\%$$

$$= \frac{4.85}{163.5} \times 100\% = 0.029 \times 100\%$$

$$= 2.9\%$$

(A)
$$a) = 3$$
 $n = 4$
 $p = 0.05$

(b) $x = 0$
 $n = 4$
 $p = 0.05$

$$= 7 \quad b(0.4, 0.5) = (4)(0.5)^{3}(0.5)$$

$$= 0.0625$$

$$= 0.25$$

$$= 0.25$$

$$= 0.0625$$

$$= 0.0625$$

p=015

Ditanya: a)
$$P(\hat{x} < 50) = --? (dalam persen)$$

b) Nilai minimal yang mendapat nilai A jika yg mendapat adu 25%?

Jawas :

6)

a)
$$P(\hat{x}<50)$$

 $2 = \frac{\hat{x} - M}{5}$
 $2 = \frac{50 - 78}{8} = \frac{-28}{8} = -3.5$
P($\hat{x}<50$) = $P(2 < -3.5)$
= 0.00023 (11hat di tabel)
Lo dalam persen
= 0.00023 ×100%
= 0.023%

•
$$P(2 < z) = 0.75$$

• 2 = 0.675 (lihat di tabel)

$$2 = \frac{x - 14}{5}$$

$$0.695 = \frac{x}{3} - 78$$

$$5.14 = \frac{x}{3} - 78$$

$$\bar{X} = 78 + 5.4$$

$$\frac{8}{2}$$
 = 83,4 : nilai minimal yang mendapat nilai A adalah 83,4

Banyak cara =
$$9 \times 7 \times 8$$

= 504 cara