

STA513 – Analisis Statistika untuk Bisnis, Ekonomi, dan Industri

Semester Ganjil 2020/2021

PERTEMUAN #2

Sebaran Penaraikan Contoh

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Prodi Statistika dan Sains Data
Fakultas Matematika dan Ilmu Pengetahuan Alam
Institut Pertanian Bogor

2020

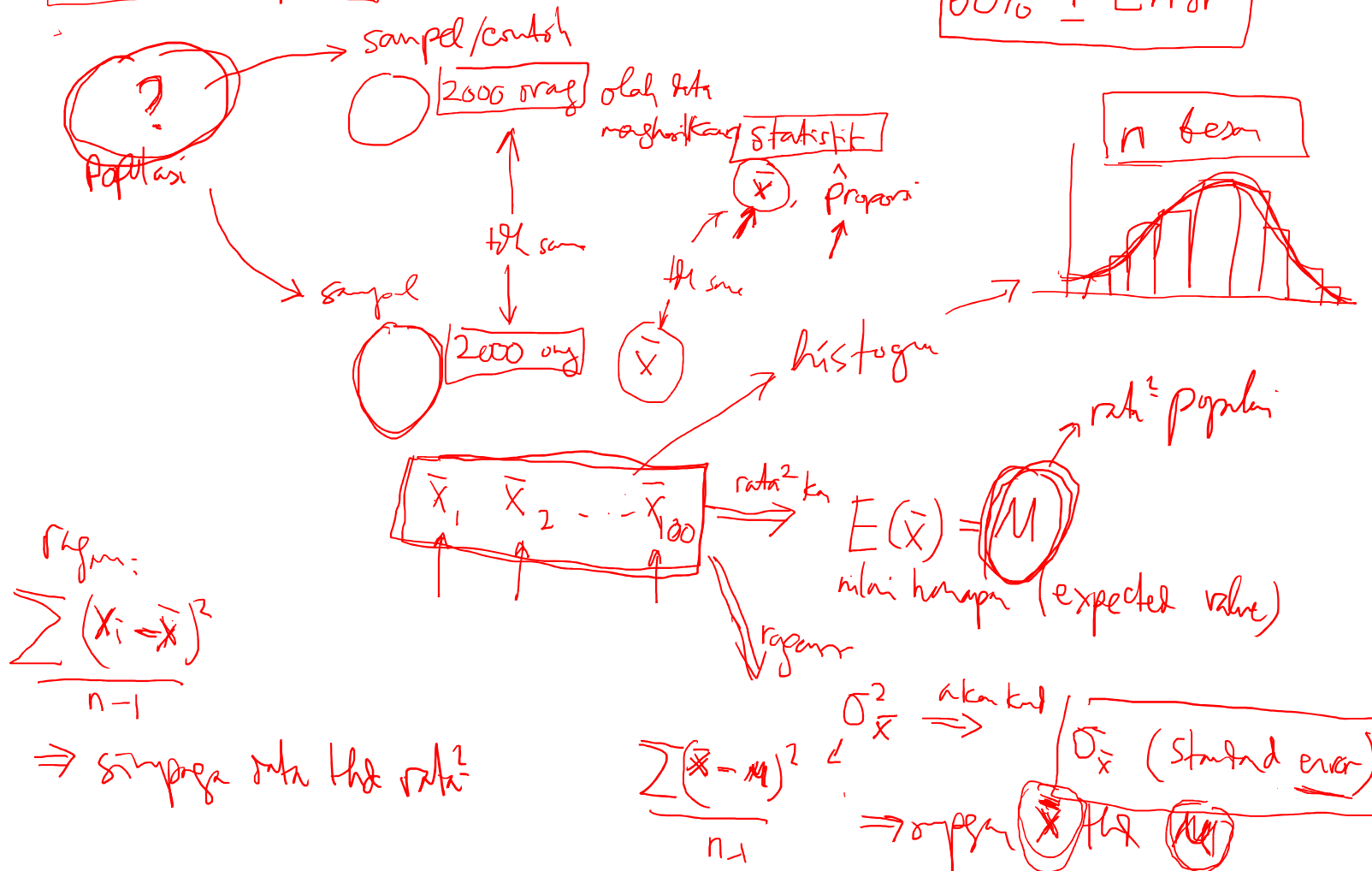


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dalil limit pusat

60% \pm Error



data

2, 7, 10, 18, 20, ..., 36

buat selang nilai

Samudra leba

1-5
6-10
11-15
:

total bolu

1-10
1-20
21-27
28-31
32-40

X

min 2 max 36

Range: 34 → 34/4

Excel:

default banyaknya

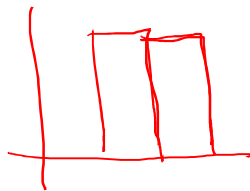
$$sly = \sqrt{n}$$

n=100 → 10 selang

10-20 selang

min 2 max 36

0-19 || 2 selang
20-39



0-4
5-9
10-14
15-19
20-
:
35-39

8 selang



urut: 4, 7, 8, 9, 12, 13

Batas Atas : $Q_3 + \frac{3}{2}(Q_3 - Q_1)$

Batas Bawah : $Q_1 - \frac{3}{2}(Q_3 - Q_1)$

$n=20$ Q_1 posisi $\frac{1}{4}(n+1)$

$Q_1 = \frac{3}{4}(9) + \frac{1}{4}(12) = \frac{39}{4} = 9.75$



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PODES
Potensi Desa

$X_5 \quad \frac{k_2}{k_1} \quad X_6$

$5.5 \Rightarrow \frac{X_5 + X_6}{2}$

$5.25 \Rightarrow \frac{X_5 + X_6}{2}$

$Q_1 = \left(\frac{3}{4}\right)X_5 + \left(\frac{1}{4}\right)X_6$

$\frac{1}{4}X_5 + \frac{3}{4}X_6$

jumlah penduduk
1008

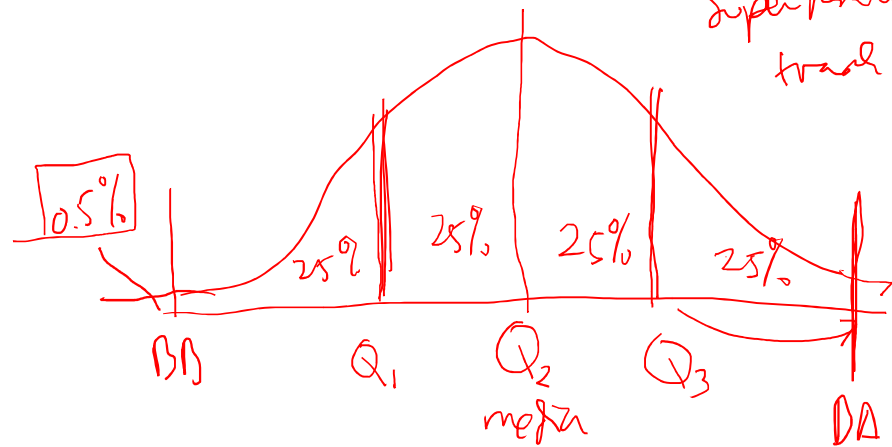
5.75

"hampir"
1000 orang

jarang
↓
"hampir"

0.5%

Supermarket
transaksi
2 per



Usia

BPJS [data sampel]

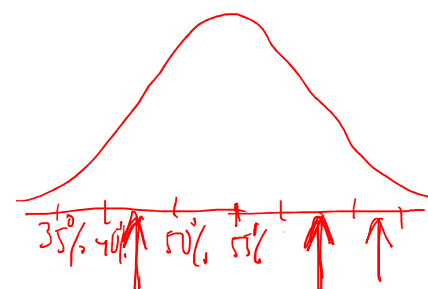
1.7 juta

1900 for
200 for

102 for
-3 for

sample besar, distribusi menjadi normal

melainkan adalah
distribusi \bar{x} (σ^2)



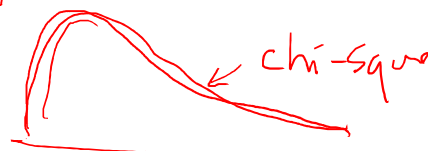
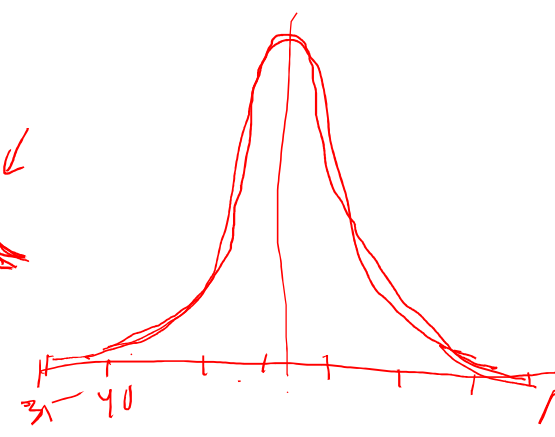
bukan distribusi data
bukan distribusi populasi



sample 200

x x
x x
↓
sketch

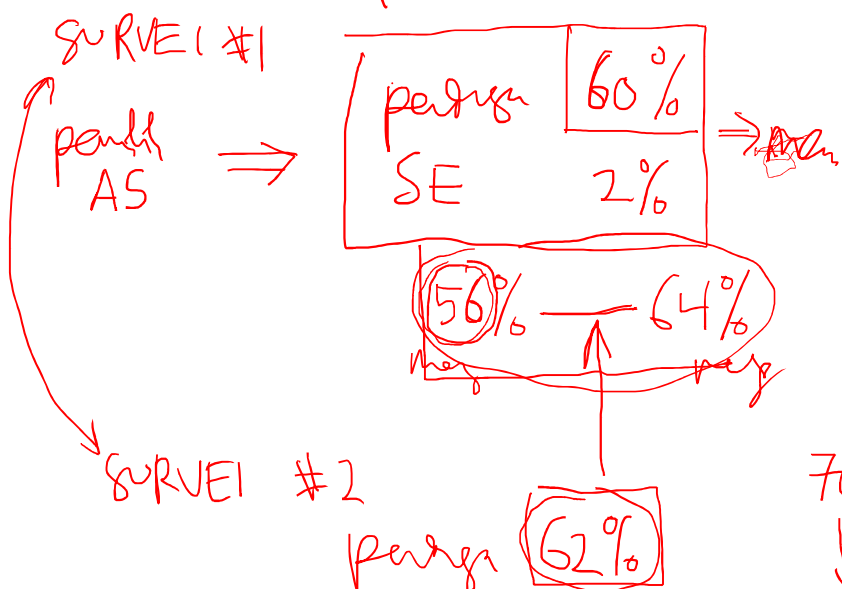
\bar{x}
x
x
x





\bar{X} perdesu
panjang standard error
confidence level 95%

$\bar{X} \pm 1.96 (2SE)$ → Bound of Error
Margin of Error
Batas Kesalahan



70 - 30
↓

pendh Ibu Khofifah 49%
(SE, 2%)
49 ± 2 SE
49 ± 4

45% — 53%

51
48 kor

ABUSE of Statistics

⇒ pengalangan

PARTAI A → 3% min 2%

$3\% \pm 2\%$

1% s/d 5%

Partai A berpotensi 2% s/d 5% persnt.
political marketing



1. Hasil analisis data berbasis "sampel" (contoh)
adalah satu ~~dua~~ banyak kemplinan
- 2.