PRY STATPROB

ALDEN LUTHE! 220 6020932 - STAPROB E

DENGAN INI SAYA NYATARAN BAHWA PR INI ADALAH HASIL PEKERJAAN SENDIRI

ALDEN WITHFT

SAVA MENGERJAKAN PR INT PLATAS TISU RESTORAN DI ACARA KELUARAA, TOLONG HARGAI USAHA SAYA!)

(1) (a) dik. 
$$\mu = 180$$
 $\sigma = 23,6$ 
 $n = 150$ 
 $\times : \text{ total curah hyan di satu fitik}$ 
 $\chi \sim N(n\mu, n\sigma^2)$ 
 $dit. p(\chi > 28000)$ 
 $= P( \neq > \frac{28000 - (180 \times 130)}{28,5.\sqrt{150}})$ 
 $= P( \neq > \frac{3,47}{2}) = 0,003$ 

(b) dik.  $\mu = 180$ 
 $\sigma = 23,5$ 
 $n = 25$ 
 $\chi : \text{Ratis}^2 \text{ produksi}$ 
 $\chi \sim V(n\mu, n\sigma^2)$ 
 $P(170 = \chi < 170)$ 
 $= P(\frac{170 - 180}{23,5} < \frac{190 - 180}{23,5})$ 
 $= \Phi(2,13) = (1 - \Phi(2,13))$ 
 $= 0,0667$ 

(1) (1) dik.

P = 30/365

n 525

Ait. E[X], Var., 50

E[x] = np = 2054 Van = np(1-p) = 1,885 5b = VVan = 1,373

6) dik. n = 70 P(2745) 20,6328 P(2745) = 0,6328  $= 1 - \phi(-0,34)$  -0,34 = 45-70P  $\sqrt{70P(1-1)}$ 

3p = 0,662 (propons' takin 2ni)  $0,662 = \frac{x}{365} \rightarrow x \approx 242$ 

tanun law

(c) dik. p = 0,662 n = 70
dit. Van dan 50

Van = np(1-p)= 70.0,665 (1-0,662) = 15,663

6 = Vvar = 3,998

(3.)  $\Theta_{aik}$ , n=12

x = 640,000

41+, upper 92%

CI = (640600 - 1,4.25000, 00)

= M = (629409,414, 00)

(583 115.365, 616884, 635)

7 - MOE = 583,115,365

7 + MOE = 616884.635

27 = 1200000

x = 600000

(c) dik. neb a = 0,15 at. lower a × 5(226004 21000 + 194004 2.19800 +13000)1 - 19500 Var = 25002 + 15002 + 16002 + 27002 + 22007-140007 = 3148000 0 = 1774,260 C1 = (-00, 19500+1.156.0) M∈ (-00, 20.337,336) (d.) lik 200 The CI 90% 5 (17861.797,00) 6 = 2091, 232 , 01-7 X = 1786 297 + MOE = 17861,797 + 1,138,203 - 13000 dit data ke 7 c 7.19000 - 19500.6 = 14000

4. (a) dik. 
$$\overline{x} = 44800$$
 $9 = 36.000$ 
 $\sigma_{\zeta}^{2} = \sigma_{\zeta}^{2}$ 
 $dit. \tau_{wo} = 5ide \lambda_{1} 99\%$ 
 $\overline{x} = 7$ 
 $S_{\zeta}^{2} = 9,290,588,235$ 

Sub:

$$(44800 - 36000 \pm 2.898) \int_{9^{2}}^{2} (\frac{1}{n} + \frac{1}{m})$$
  
 $C1 = 4.-42 \in (4.745.778, 12.857.22)$ 

6. dik. 0, = 4000 62 = 300 dit. lower 26 %

$$C1 = (-50, 8800 + 1,75 \sqrt{61^2 + 62^2})$$
  
=  $(-50, 11020, 501)$ 

@ dik al 95% = (-8,667,00)

44800-32400-4 + 3006 623 = 6667, LOZ Y = 78194, 21

$$C1 = \left(\frac{1}{3} - \left(\frac{\frac{1}{3} \cdot \frac{2}{3}}{900}\right)^{\frac{1}{2}}, 1,96\right)$$

@ dik. MoE 95% two sided =0,02

dit. n

≈ 1537

komputer divji

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