Inspire the love of learning
1 2021 June - Statistics
The population contains all individuals / subjects about which we want to collect information
which we want to collect information
A TTXX, DOOD XV, IVI, XACMADO in LP
5 The possible tosses of the used coin.
I Frem drive from the course of tennis shoe.
b All possible tosses of the used coin. c All pairs of the new type of tennis shoe. d Every drive from the lawyer's suburban home to her mid town office.
2) a The meanis: n
$M = \frac{1}{n} \sum_{i=1}^{\infty} x_i = 8,6$
La Firstly we contitle remade:
b Firstly, we sort the records in ascending order: 5, 5, 5, 6, 9, 10, 10, 11, 15
he median is:
Kned = 9+10 = 9,5.
20001
c The modes are: 5, 10.
1 3 3 1 1 - 1 1 - (N 2 + 1) × > 2 (8 + 1) 1 1 g
3) the macon is 2 150
- 1 re mean 13 &, 638
The median is 2, 7 $\frac{1}{\sqrt{(X_i - X_i)^2 - 0.3428}}$
$\frac{1}{1} \frac{1}{1} \frac{1}{1} = 1$
The standard deviation is 0,5855
111 - 12 - 10 5 1 - X 11 =
(1/21/35/11-)

Blueangel

Inspire the love of learning X-900 7-6-25 0,00621 (172,5<X<175,8)= P(-1,45<Z<0,94) = P(Z(0,94) - P(Z(-1,45) P(Z<0,94)-1+P(Z<1,45) 0,7529 Hence, the number of sample means that jall between 172, 5 and 175, 8 cm is 200, 0, 7529~ 151 c P(X< 172,0) = 1-P(Z<181) Hence, the number of sample means falling below 172cm is 200,03593=17 Blueangel &

Inspire the love of learning $\bigoplus_{6 = 6} 4,6$ 6 = 0,3 = 0,05 $\sqrt{N} = \sqrt{36}$ ⊕ 95% > 2/2 = 0,025 > 72/2 = 1,96. 95% confidence interval is: er 2,502 < M < 2,698. € 99% > d/2 = 0,005 > Zd/2 = 2,575 x - Z2/2 6 < M < x + Z2/2 6 7 2,6 - 2,575 x 0,05 < M < 2,6 + 2,575, 0,05 a) 2,4713 < M < 2,7288 8 0 M = = 23500 6 = 3900 n = 100 0 Ho: M= 20000 H1: M > 20000 $\theta Z = \frac{X - M}{6/\sqrt{n}} = \frac{23800 - 20000}{6/\sqrt{n}} = 8,97.$ P(Z78,97) - 1-P(Z<8,97)=1-1=0 > The P-value is x0 > Reject the null hypothesis. Hence, automobile is driven on the average Blueangel 5

more than 20000 bilomotors per year

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The second moment of y:

E (42) - E((x (8) - x(5))) = $E(\chi^2(8) + \chi^2(5) - 2\chi(8)\chi(5))$ = E(x (8)) + E(x (5)) - 2 E(x (8), x (5)) R(0) + R(0) - 2R(3)2A - 2Ae-3d (10) o Ryy (t,t) - Rxx (t,t) + h(t) + h(t) = Ryy (t, t) + h(t) (ty, tx)+h(ty)- [h(d) Rxx (ty, tx-2) dd