thanas

L)
$$P[X>10]=\frac{1}{2}$$
; $m=20$
 $P[X>10]=P[\frac{X-L}{\frac{L}{M}}>\frac{10-97}{\frac{1}{\sqrt{20}}}]=P[\frac{1}{2}>1.34]=1-P[\frac{1}{2}\leq 1.34]$

$$P[\bar{x} > 10] = 1 - P[\bar{x} \leq 10] = 1 - P[\bar{x} \leq \frac{10 - 97}{1/120}] = 1 - P[\bar{x} \leq \frac{1.34}{1/120}] = 1 - P[\bar{x} \leq \frac{1.34}{1/$$

$$P[X \angle 8.9] = P[\frac{X - \mu}{5/\sqrt{m}} \angle \frac{89 - 97}{1/\sqrt{n}}] = t[\frac{1}{(15)} \angle -3.578] = 1 - P[\frac{1}{(17)} \angle 3.578] = 1 - 0.001$$

$$=1-P\left[\frac{(x-7)-(75-80)}{\sqrt{\frac{1.4^2}{31}+\frac{2.0^2}{61}}} \le \frac{0-(75-80)}{\sqrt{\frac{4.4^2}{31}+\frac{2.0^2}{61}}}\right]=$$

$$\frac{\mathbf{X4}}{P[\mathbf{X}27]} = 1 - P[\mathbf{X} - 720] = \frac{\mathbf{W}}{45} P \left[\frac{(\mathbf{X}7) - (\mathbf{A} \cdot \mathbf{S} - 80)}{\sqrt{15 \times 14^2 + 26 \times 2.0^2}} \left(\frac{0 - (\mathbf{A} \cdot \mathbf{S} - 80)}{\sqrt{15 \times 14^2 + 26 \times 2.0^2}} \right) \right] = 0$$

四十

X =" gasto por form-de-servance eur bebodos alvolters" $M = 6.1 \; j \quad m = 100 \; j \quad \overline{\chi} = 3.4$ $XNN(p=61; \ \overline{\nu}=1.8)$

a) x = 5% $TC_{95\%}(y) = \int \overline{X} - 2_{1-\frac{\omega}{2}} \frac{\overline{D}}{\sqrt{m}} | \overline{X} + 2_{1-\frac{\omega}{2}} \frac{\overline{U}}{\sqrt{m}} [$ $= \int 3.4 - 2_{0.98} \cdot \frac{18}{\sqrt{100}} | 3.4 + 2_{0.945} \cdot \frac{18}{\sqrt{100}} [$ $= \int 3.4 - 1.96 \times \frac{1.8}{10} | 3.4 + 1.96 \times \frac{1.8}{10} [$ $= \int 3.5 | 3.75[$

Não posso concordar com a Thés pris o vela medro de gasto (6.1€) res se enconte destro do JC a 950.

b) $\alpha = 10^{\circ}$ Se aumentar a confançe o interelo de confança
lera main amplitude. Pelo contrairo se diminuir
a confança lera « im IC com neus apriliade

logo como d=100 teria um IC contrato cema

IC 977 (µ) e : a conclusor seria a misma.

EX2: X=" tempo que o per form"

Γ(qq, (μ)=? ; X αι Ν(μ, τ))

αα: X=(87,76,72,86,66,74,65,81,70,88); μ=10

Γ(qq, (μ)-) x-t(ω-1); 1-q. √m; γ+t(ω-1); 1-q. √m[=

$$= \frac{1}{3}7680 - \frac{1}{49}10995 \cdot \frac{855}{\sqrt{10}} + \frac{3680 + \frac{1}{49}10995 \cdot \frac{855}{\sqrt{10}} = \frac{1}{3}68.01 \cdot \frac{855}{\sqrt{10}} = \frac{1}{3}68.01 \cdot \frac{855}{\sqrt{10}} = \frac{1}{3}68.01 \cdot \frac{855}{\sqrt{10}} = \frac{1}{3}68.01 \cdot \frac{1}{3}559 = \frac{1}{3}68.01 \cdot \frac{1}{3}59 = \frac{1}{3}68.01 \cdot \frac{1}{3}59 = \frac{1}{3}68.01 \cdot \frac{1}{3}59 = \frac{1}{3}68.01 \cdot \frac{1}{3}59 = \frac{1}{3}68.01 \cdot \frac{1}{3}68.$$

X-0.c. per xep. 0-laps le recicé. = pos o al-oco M=40)30; X=0.85; 8=0,20 XN pq. od som od les conhecido

a Icas(M)=?

1-1 = 0.975

X 39;0955 = 65.75

Exy .x. v.a. que representamente me esteci. A e de MO CELIO

XNBar(p) \$=0.62 \$=051. \$ IC (\$ | =] \$ + 2 * \ \frac{\p(l-\p)}{m}

 $\frac{1-\sqrt{2}}{2} = \frac{1}{0.55} = 1.645$ $\frac{1}{1-\sqrt{2}} = \frac{1}{0.55} = 1.645$ $= \frac{1}{1.645} = \frac{1}{1.645} =$

 $X = \frac{1}{2} \left(\frac{1}{2} \frac{1}{$

Como o rata teco nes este contas no intento unto com 957 podemos afrimas que as medicos es diferente.