```
(13)6.7
  =16.33 , 5=4.29
                                 @ 1-0=0.90, 0=0.10
 O 1-0=0,95, d=0,05
                                          Z= 20.05 = 1.645
     Z& = Z0.025 = 1.96
    =16.33 + 1.96 + \frac{4.29}{\sqrt{36}}
                                                       = 16.33 + 1.645 4.29
                    =16.33 =1.4014
                                                       =16,33 ± 1,18
                    7 (14.93, 17.73) x
                                                       7 (15.15,17.51)
[151 6.9]
P n=12, = (15000+15(00+15000+15200+15500+15400+15600+15500+15300+
                   15200+15300+15400)/12=15291.67
5 = \sqrt{\Sigma (x_2 - \overline{x})^2 / (n - 1)} = 197.52
②1-0=0.90, 0=0.10 , 自由度 n-1=12-1=11
 ZX = Z0,05 = 1.645
 Z_{2}^{2}=Z_{0.05}=1.045

t_{0.05}(11)=1.796 90%百分信報區間 \overline{Z}\pm t_{2}^{2}(n-1)\frac{5}{\sqrt{n}}

=15291.67\pm1.796\frac{197.52}{\sqrt{12}}
                                     = 15291,67 + 102,41
                                     ⇒ (15189.26, 15394.08) x
③从好90%區間長度
 2t\frac{\alpha}{2}(n-1)\frac{5}{\sqrt{n}} = 2 \times t_{0.05}(11)\frac{197.52}{\sqrt{12}}
                 = 2 x 1, 996 x 199,52 = 2 x 102, 4 = 204,82
```

```
\begin{array}{c}
| \overline{b} | b | 19 \\
| 1 - \alpha = 0.95 \\
| 2 = \overline{Z_{0.025}} = 1.96
\end{array}

\begin{array}{c}
| R | (196 \times 0.05) \\
| R | (196 \times
```