# Answer of 14 by Xu Min 

## NINE

- 1. 

$$
\begin{gathered}
t_{0.975}(19)=2.2622 \\
\frac{\bar{x}-60}{14.4 / \sqrt{10}}=0.351<2.26622
\end{gathered}
$$

Accept.

- 2. 

$$
\begin{gathered}
\bar{x}=\frac{1}{6}(52.66+\ldots+51.037)=51.14, s^{2}=1.099 \\
t_{0.975}(5)=2.5706 \\
\frac{\bar{x}-52.5}{\sqrt{1.099} / \sqrt{6}}=-3.17<-2.5706 \\
\text { Refused. }
\end{gathered}
$$

- 3. 

$$
z_{0.995}=2.57
$$

$$
\frac{\bar{x}-\mu}{\triangle / \sqrt{9}}=1.5<2.57
$$

Accept.

- 4. 

$$
\begin{gathered}
\chi_{0.975}^{2}(14)=26.119, \chi_{0.025}^{2}(14)=5.629 \\
w=\frac{(n-1) s^{2}}{\sigma^{2}}=\frac{14 *(0.025)^{2}}{0.0004}=21.875 \\
\chi_{0.025}^{2}(14)<w<\chi_{0.975}^{2}(14)=26.119 \\
\text { Accept. }
\end{gathered}
$$

- 5. 

$$
\begin{aligned}
& w=\frac{(n-1) s^{2}}{\sigma^{2}}=15.68 \\
& W>\chi_{0.95}^{2}(8)=15.507
\end{aligned}
$$

Refused.

- 7. 

$$
\begin{gathered}
\bar{x}=\frac{1}{10}(42+\ldots+55)=62.4, s^{2}=109.64 \\
\chi_{0.95}^{2}(9)=16.919 \\
w=\frac{(n-1) s^{2}}{\sigma^{2}}=12.33
\end{gathered}
$$

Accept.

