

$$n = 361$$

$$\bar{x} = 6.504$$

$$s = 5.584$$

$$C = 999. \Rightarrow t^* = 2.709$$

}

$$\bar{x} \pm t^* \cdot \frac{s}{\sqrt{n}} =$$

$$6.504 \pm (2.709) \left( \frac{5.584}{\sqrt{361}} \right)$$

1.791

$$\underline{\underline{5.7}} \quad \text{to} \quad \underline{\underline{7.3}}$$

$$\underline{\underline{5.7 \leq \mu \leq 7.3}}$$

6.94

$$n = 150, \quad \underline{\underline{\bar{X}}} = 3.1, \quad s = .72, \quad C = 95\%, \quad t^* = 2.01$$

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$$\underline{\underline{MOE}} = (2.01) \left( \frac{.72}{\sqrt{150}} \right) = \underline{\underline{.205}}$$

$$\underline{\underline{CI}}: \quad 3.1 \pm .205 = \underline{\underline{.105 \text{ to } .515}}$$

$$\underline{6.118}$$

$$t = \frac{\bar{x} - \mu}{\frac{s}{\sqrt{n}}} =$$

$$\frac{4.8 - 4}{\frac{2.3}{\sqrt{15}}} = \underline{\underline{1.347}}$$

Get p from H<sub>0</sub>

$$p\text{-value} = 2 = \underline{\underline{2.07}}$$

$$\underline{6.120} \quad H_0: \mu = 634 \text{ vs. } H_a: \mu \neq 634$$

$$n = 1700, \bar{X} = 664, s = 778$$

$$t = \frac{664 - 634}{\frac{778}{\sqrt{1700}}} = \underline{\underline{1.59}} \quad p\text{-value} = \underline{\underline{11.29.}}$$

6.123

$n=12$ ,  $\bar{x}=6.2$ ,  $s=1.7$ ,  $\alpha=5\%$   
 $df=11$

$H_0: \mu = 8$  vs.  $H_a: \mu < 8$

$$t = \frac{6.2 - 8}{\frac{1.7}{\sqrt{12}}} = \underline{\underline{-3.67}} \quad p\text{-value} = .0018 = .18\%$$

$\Rightarrow$  reject  $H_0$ .