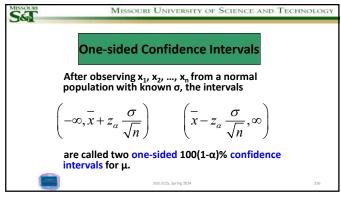
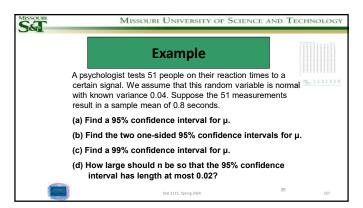


MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY 95% Confidence Interval After observing x₁, x₂, ..., x_n from a normal population with known σ , the interval $\left(\overline{x}-1.96\frac{\sigma}{\sqrt{n}}, \overline{x}+1.96\frac{\sigma}{\sqrt{n}}\right)$ is called a 95% confidence interval (CI) for μ . 254

Confidence Interval After observing x₁, x₂, ..., x_n from a normal population with known σ , the interval $\left(\overline{x} - z_{\alpha/2} \frac{\sigma}{\sqrt{n}}, \overline{x} + z_{\alpha/2} \frac{\sigma}{\sqrt{n}}\right)$ is called a 100(1- α)% confidence interval (CI) for μ .

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