This internal estimation time for proportions; next testing; sample size determination.

\( \mu \text{ value not in } 95\% \)

95% interval

\( t_{24.3} = 2.064 \)

\( 25.0 < 25.5 \)

\( \bar{y} \pm 2.064 SE(\bar{y}) \)

95% CI for \( m \)

Data do not support theory at 95% (confidence) level: the diff. between \( \bar{y} \) (data) & 24.3°C (theory) is statistically significant (statsig).
9: What is the broadest scope of valid generalizability outward
from your data set?

\[ SE(\hat{p}) = SE(\hat{q}) = \frac{\sigma}{\sqrt{n}} \]

\[ = \frac{\sqrt{\hat{p}(1-\hat{p})}}{\sqrt{n}} = \sqrt{\frac{0.83 \times 0.17}{12}} = 0.108 \]

\[ \hat{p} \pm 2 \sqrt{\hat{p}(1-\hat{p})/n} \]

\[ 95\% \text{ normal C.I.} \]

\[ p \pm 2 \sqrt{0.083 \times 0.17 / 12} \]

Approx. 95\% Int.