

Homework Solutions

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Exercise 25

- (a) If the sample size were $n = 48$, then \bar{x} would be normal with mean 12 and standard deviation $\frac{6.93}{\sqrt{48}} = 1.0003$. Based on that, Histogram C would be the only possible one.
- (b) If the sample size were $n = 480$, then the standard deviation would be $\frac{6.93}{\sqrt{480}} = 0.3163$. Then, only Histogram F would be possible.