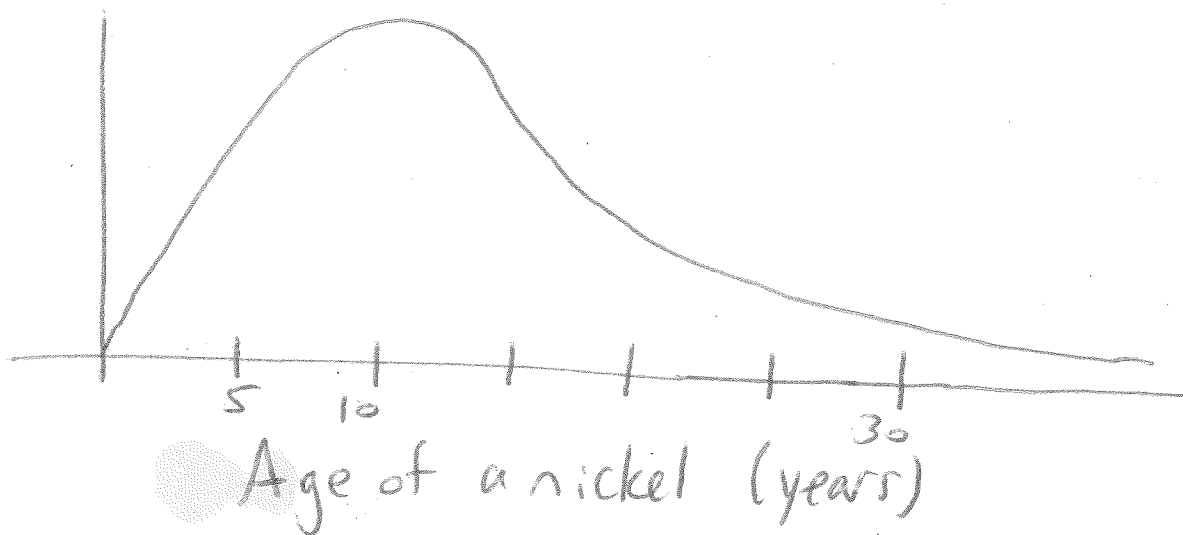
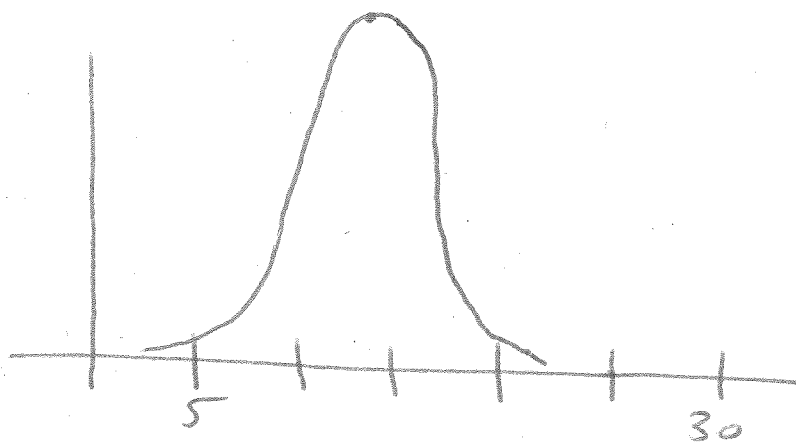


9.5 The Central Limit Theorem



Take random samples of 30 nickels and calculate the sample mean \bar{x} for each sample.



Central Limit Theorem

If n = number of measurements in a sample is at least 30 then:

\bar{x} is normally distributed,
the mean of the \bar{x} -values is μ , and
the standard deviation of the \bar{x} -values
is $\frac{\sigma}{\sqrt{n}}$.

(μ = population mean

σ = population standard deviation)