

Summary:

$$\mu_{\bar{x}} = \mu$$

$$\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}}$$

1 standard error of mean

normalcdf(LV, HV, μ , $\frac{\sigma}{\sqrt{n}}$)

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33. $\mu = 128$
 $\sigma = .20$
 $\sigma_{\bar{x}} = \frac{.20}{\sqrt{40}}$

$P(x \leq 127.9) \Rightarrow$ normalcdf(-1E99, 127.9, 128, $\frac{.20}{\sqrt{40}}$)

this should not happen ≈ 0.0

Machine needs to be reset

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35 $\mu = 96$ $\mu_x = 96.25$
 $\sigma = .5$ $\sigma_x = \frac{.5}{\sqrt{40}}$

a) $P(x > 96.25) =$ normalcdf(96.25, 1E99, 96, $\frac{.5}{\sqrt{40}}$)
 $\approx .0008$.3567

b) claim is incorrect

c) $n=1$ $P(x > 96.25)$
 normalcdf(96.25, 1E99, 96, $\frac{.5}{\sqrt{1}}$)
 .3085 not really

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