

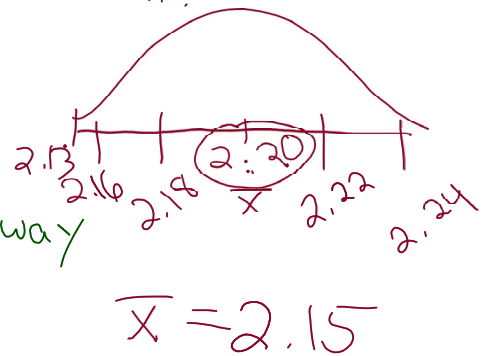
14-8

- a) no - skewed & right
- b) the samp. dist. will not be normal: $5 < 30$
and pop. isn't normal
(fails CLT conditions)
- c) Yes, \bar{x} will follow approx. normal dist. $100 \geq 30$
- d) mean of the \bar{x} will = $\mu = 1$
St. dev. of \bar{x} will = $\frac{\sigma}{\sqrt{n}} = \frac{1}{\sqrt{100}} = .1$
- f) 95%
- g) 95%

14-10

a) dist of \bar{x} weights will be approx normal even with $n=5$ because the population is normal.

$$\mu_{\bar{x}} = 2.2 \quad \sigma_{\bar{x}} = \frac{.04}{\sqrt{5}} = .0179$$



e) yes, but unlikely: > 2 st. dev. away

d) yes...

e) ~~no~~...

f) No... only 1 st. dev. away

g) anything < 2.16 or above 2.24