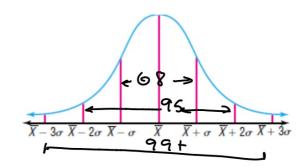
## Precalc14.4

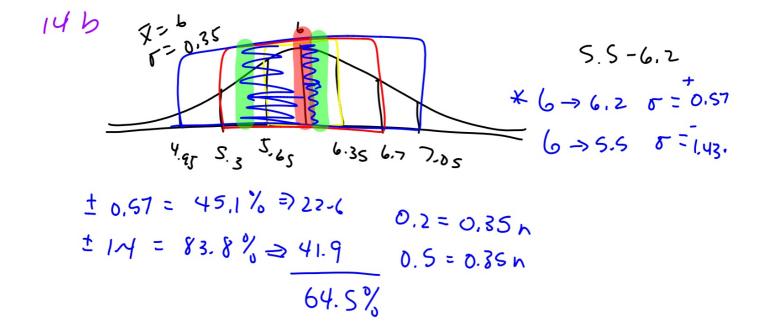
Use the normal distribution

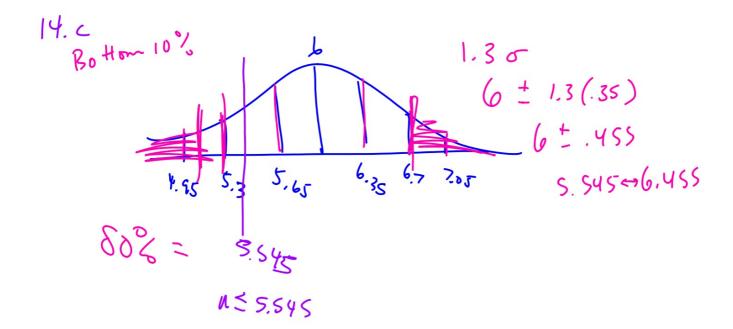
68-95-99+

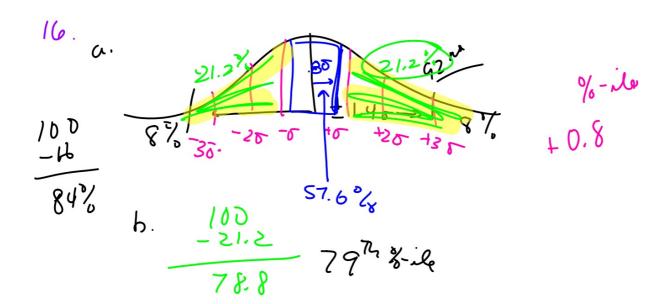
normal distribution

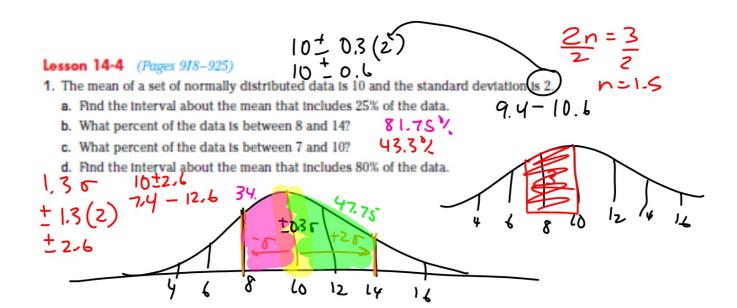


Quiz 14.4 Thurs.



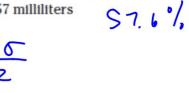


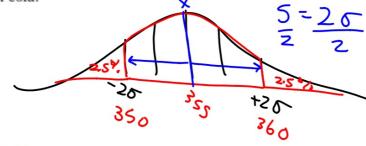




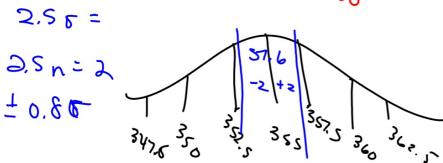
## 95% 350-360 > 1.960

- 21. Industry A machine is used to fill cans of cola. The amount of cola dispensed into each can varies slightly. Suppose the amount of cola dispensed into the cans is normally distributed.
  - a. If at least 95% of the cans must have between 350 and 360 milliliters of cola, find the greatest standard deviation that can be allowed.
  - b. What percent of the cans will have between 353 and 357 milliliters of cola?





WB 14.4



- 2. Suppose 400 values in a set of data are normally distributed.
  - a. How many values are within one standard deviation of the mean?
  - b. How many values are within two standard deviations of the mean?
  - c. How many values fall in the interval between the mean and one standard deviation above the mean?