

Section 6.2: cont'd

Tuesday, May 28, 2013
11:50 AM

Assignment #3 due on
Tuesday, June 4

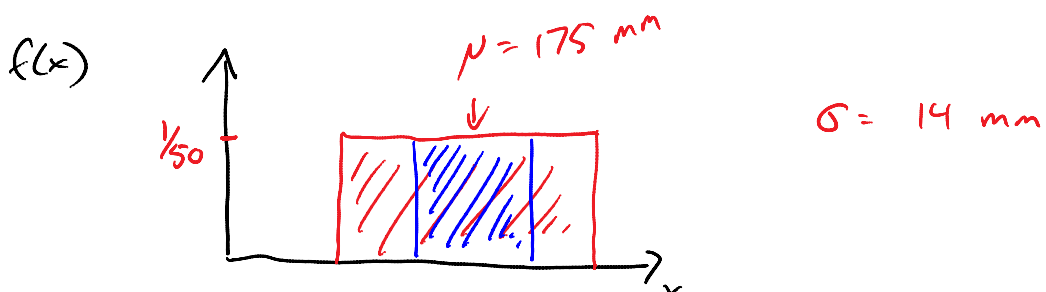
Quiz # 3 on Friday, June 7

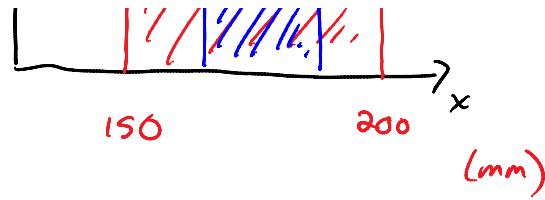
- covering chapters 4, 5, & 6
 ↓ discrete
 ← continuous
 ↑ probability

- formula sheet posted this week

- you'll also get a clean copy of
the Standard Normal Table

finishing the problem from yesterday:





What's the probability that a randomly selected sheet lies within 1 std dev of the mean? 2 std devs?

$$\mu \pm 1\sigma = 175 \pm 14 \text{ mm}$$

from 161 to 189

$$P(161 < x < 189) = \text{area of the curve from 161 to 189 (rectangle)}$$

$$= 28 \cdot \frac{1}{50} = 0.56 \text{ or } 56\%$$

$$\mu \pm 2\sigma = 175 \pm 28 \text{ mm}$$

from 147 to 203 mm

includes all possible values of x

(entire rectangle inside)

$$P(147 < x < 203) = 1$$