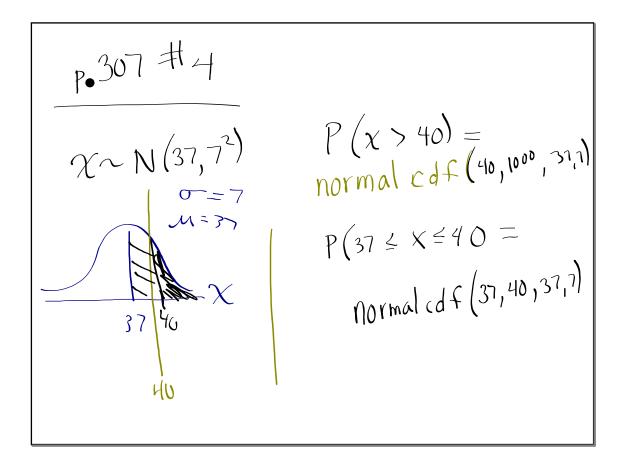
Use the answers solutions to check your HW

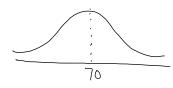
Short - day.... you have 5 minutes



Questions on the homework?

$$P.307.16$$
 $M=70$
 $G=4$
b) $P(68 \le X \le 72) =$

h)
$$P(68 \le X \le 72) =$$



In 52 weeks, how many would we expect to collect at least \$45?

Answers to HW

(p. 703 ...

September 20, 2019

Pick up the Warm Up

WARM UP + CLASS WORK



Chapter 1 test scores from Mrs. Gallas's first-hour class follow an approximately Normal distribution with a mean of 81 and standard deviation of 6.

a) Sketch the Normal curve that approximates the distribution of Chapter 1 test scores. Label appropriately.

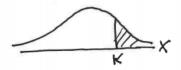


Chapter 1 test scores from Mrs. Gallas's first-hour class follow an approximately Normal distribution with a mean of 81 and standard deviation of 6.

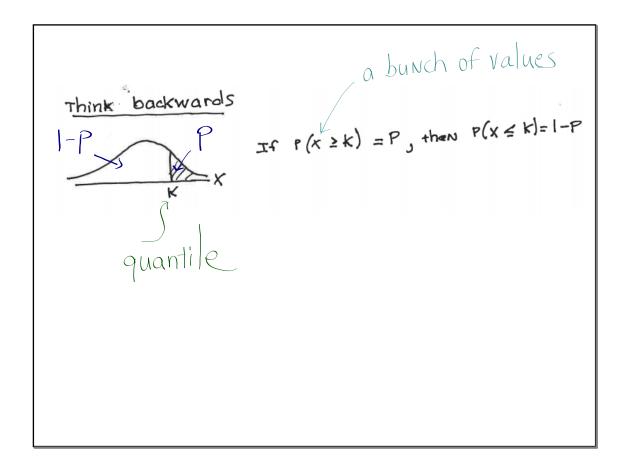
 a) Sketch the Normal curve that approximates the distribution of Chapter 1 test scores. Label appropriately.

- b) What percent of the scores are between 65 and 78? (show appropriate notation)
- c) What percent of the scores are between the greater than 76?
- d) If there are 50 students in the class, approximately how many students have a score within one standard deviation of the mean?

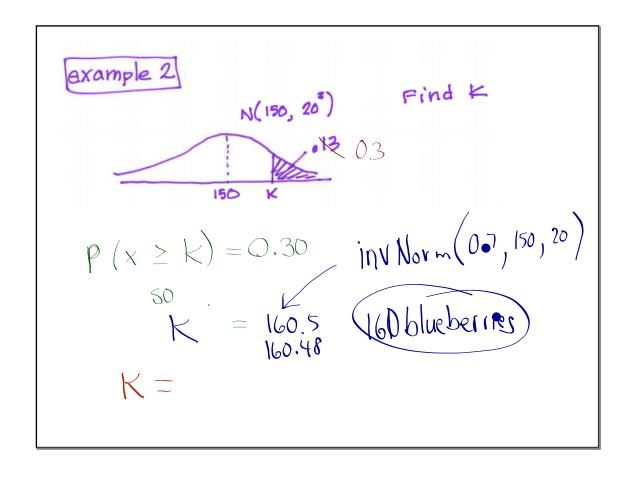
Think backwards



If $P(x \ge k) = P_j$ then $P(x \le k) = 1-P$



Qxample 1
$$x \sim N(4.2, a.6^2)$$
Given $P(x < K) = .173$
 $= invNerm (area to mean, std.)$
 $= inv Normal(.13, 4.2, 0.6)$
 $= 3.52$
 $P(x < K) = 0.13$



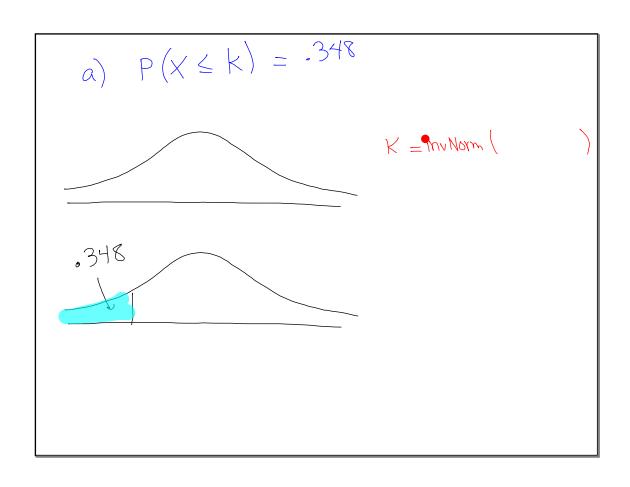
Example 3 suppose
$$x \sim N(20, 3^2)$$

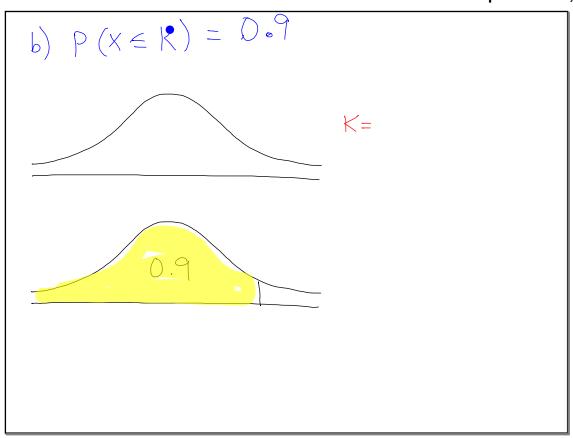
Thustrate each of the situations below

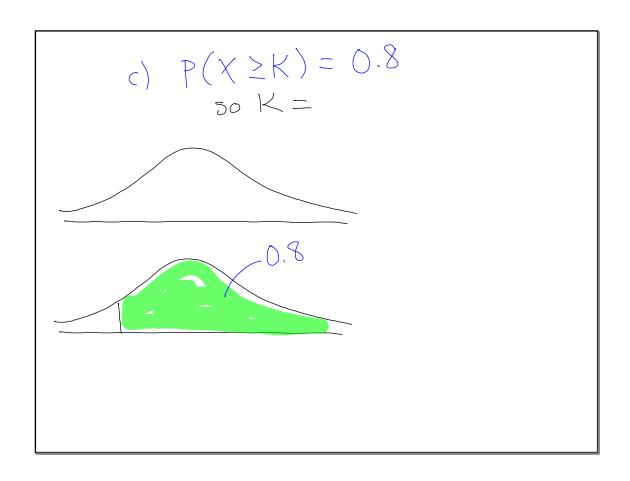
with a sketch

b) $p(x \leq k) = 0.9$

a) $P(x \geq k) = 0.8$







next week there will be a small quiz on Normal Distribution

(Not a large Test)

ON MON TURSday

on Monday, we'll start a 9 day unit on Statistical Applications



See your test (finally)

Assignment: Ch 10 Packet p.307....9 p.309.....2, 5, 6 diagrams and good notation a must