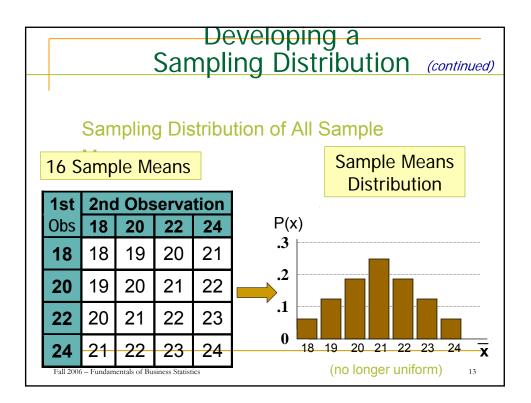
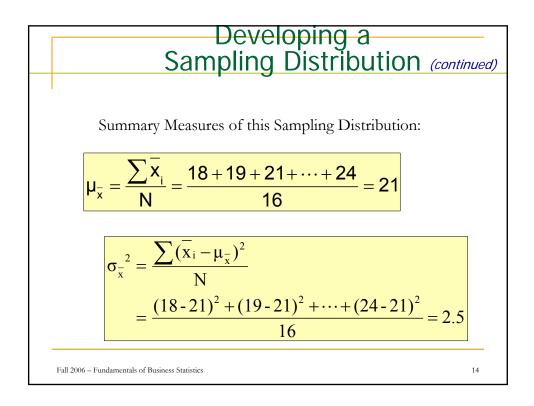
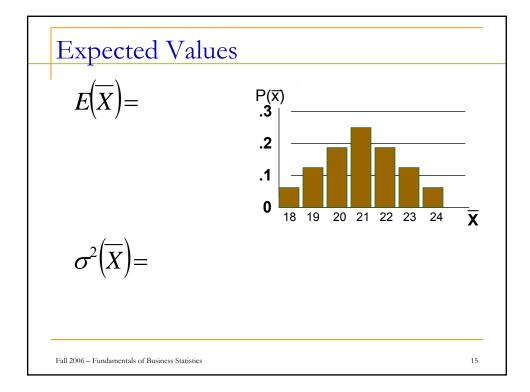
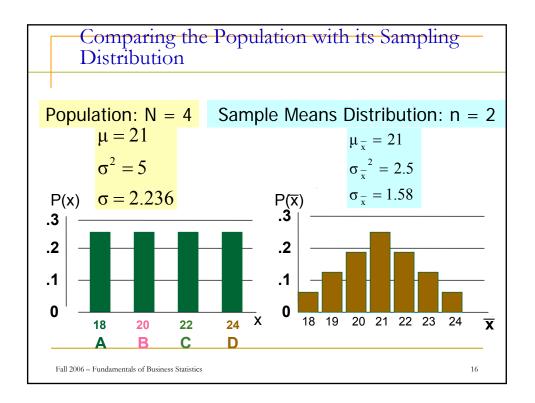


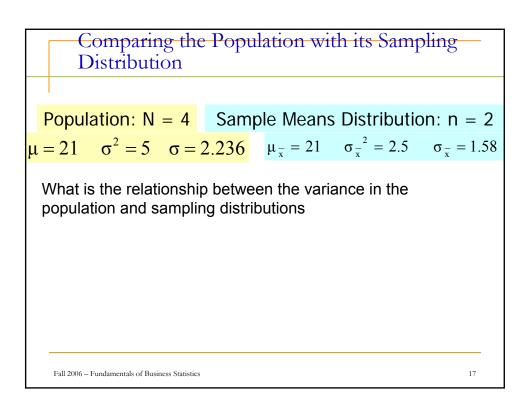
Developing a Sampling Distribution (continued) Now consider all possible samples of size										
1 st	Now n=2	amp 	les o	f siz	е					
Obs	18	20	22	24				16	Samp	ble
18	18,18	18,20	18,22	18,24				Means		
20	20,18	20,20	20,22	20,24		1st	2nd Observation			
22	22.18	22.20	22,22	22.24		Obs	18	20	22	24
	-					18	18	19	20	21
24	24,10	24,20	24,22	24,24	l	20	19	20	21	22
16 possible samples (sampling with						22	20	21	22	23
replacement)						24	21	22	23	24
Fall 2006 – Fundamentals of Business Statistics 12										

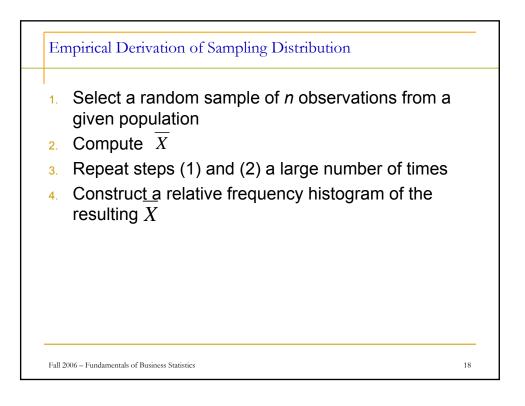


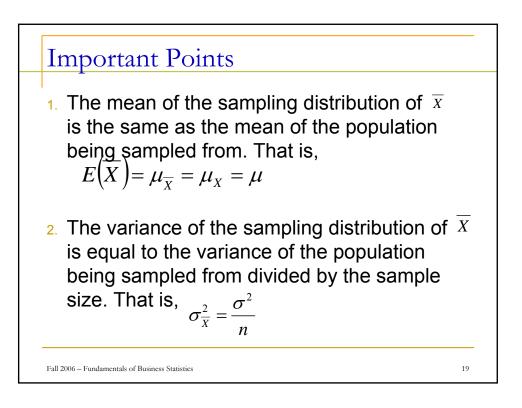


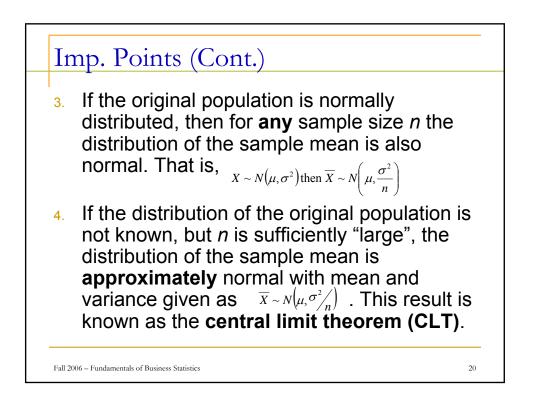


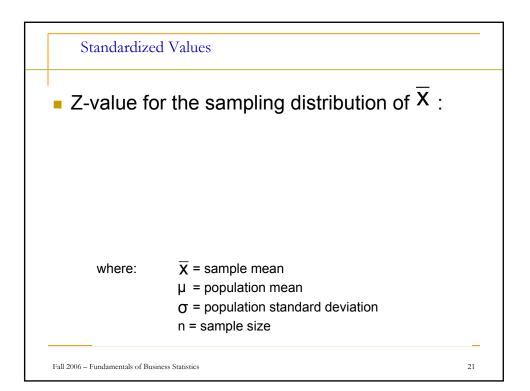


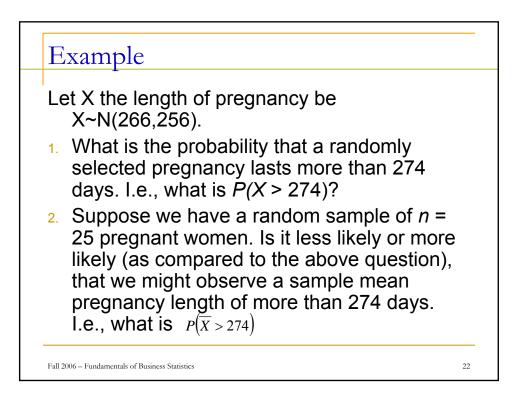












23



- The model for breaking strength of steel bars is normal with a mean of 260 pounds per square inch and a variance of 400. What is the probability that a randomly selected steel bar will have a breaking strength greater than 250 pounds per square inch?
- A shipment of steel bars will be accepted if the mean breaking strength of a random sample of 10 steel bars is greater than 250 pounds per square inch. What is the probability that a shipment will be accepted?

Fall 2006 - Fundamentals of Business Statistics

