

**MDSC 643.01**

**Fall 2002**

**Inference for a Mean**

**Brant**

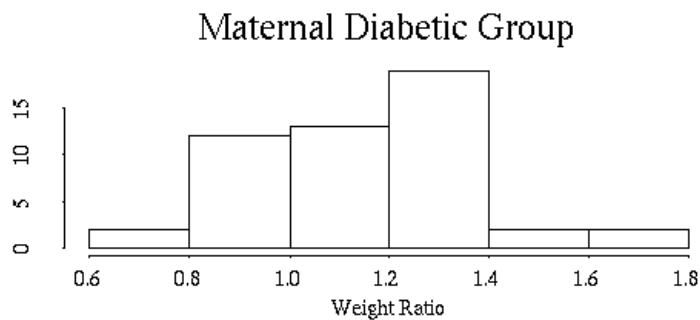
The data described below are weight ratios for 50 newborn babies who were born to mothers diagnosed with maternal diabetes. Weight ratios are determined by taking the ratio of birth weight to average weight for the estimated gestational age, which is available in tables based on previous data. By definition, the mean weight ratio for babies in the population used to construct the tables is 1. What is the corresponding value for babies such as these?

N = 50    Median = 1.1765  
Quartiles = 0.997, 1.306

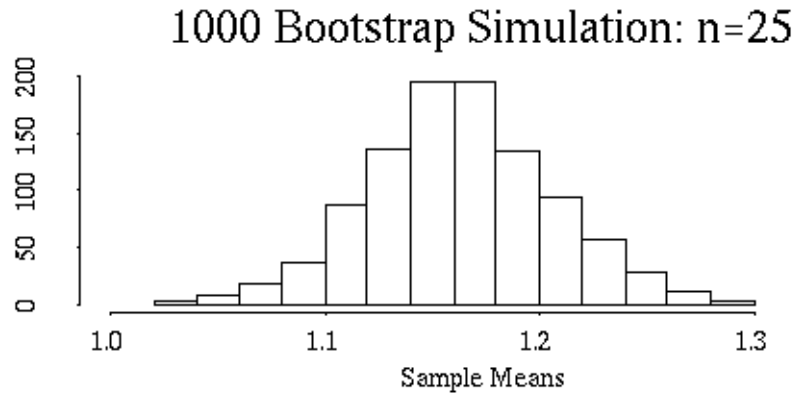
Decimal point is 1 place to the left of the colon

7 : 48  
8 : 56  
9 : 01356789  
10 : 001239  
11 : 000234699  
12 : 1224556999  
13 : 114556789  
14 : 03  
15 :  
16 : 8  
17 : 1

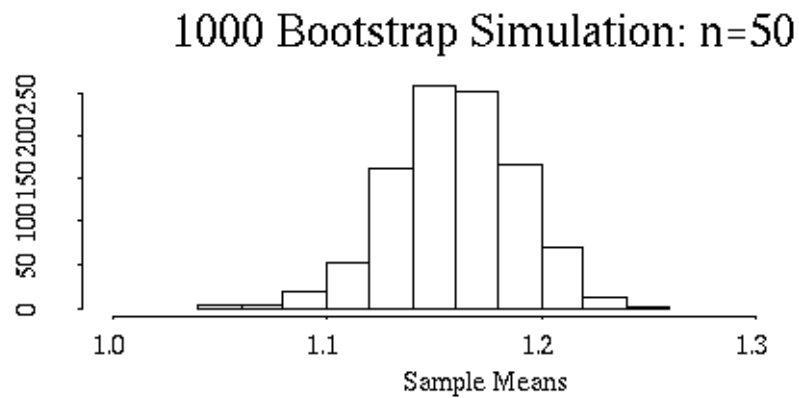
Summaries	Mean	S.D.	Min.	1st Qu.	Median	3rd Qu.	Max.	n
	1.163	0.2082	0.743	0.9972	1.176	1.303	1.708	50



## Simulating Sampling Distributions: The Bootstrap



Mean	S.D.	Min.	1st Qu.	Median	3rd Qu.	Max.	n
1.163	0.04287	1.034	1.136	1.162	1.189	1.296	1000



Mean	S.D.	Min.	1st Qu.	Median	3rd Qu.	Max.	n
1.16	0.02874	1.046	1.141	1.16	1.18	1.246	1000