

Math 1030 November 21, 2006 H17

Text problems: 7.2 # 12, 13, 15, 16, 19, 23, 25

1) The mean sample height ($n = 35$) from a population of children in grade 6 is 51.2 inches with a standard deviation of 4.4 inches. Find the 95% confidence interval for the sample mean.

2) The mean sample weight for a bag of potatoes is 10.3 pounds with a sample standard deviation of 1.4 pounds. 50 bags of potatoes were in the sample. Find the 99% confidence interval for this sample mean.

3) The standard deviation of wait times for taxis at a hotel is 3.5 minutes. To find the mean, what sample size should be used so that the error for a 90% confidence interval is less than 1 minute?