

MATH 107/CCE

Practice Problems 3 Spring 2003

University of Rhode Island

Instructor: Dr. M. Kulenovic

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1. Find the mean, standard deviation, and five number summary for the following numbers:

4, 7, 8, 11, 14, 16, 19, 20.

2. The results of a quiz are given in the following table:

<i>Score</i>	10	9	8	7	6
<i># of Students</i>	5	8	11	10	6

(a) Find the mean, standard deviation, and five number summary of scores.

(b) Construct a pie chart and a histogram to represent the data.

3. To study the output of a machine that fills boxes with rice, a quality control engineer weighed 150 boxes of Brand Z cereal. The frequency distribution is summarized in the following table

<i>weight</i>	$9.3 < x \leq 9.6$	$9.6 < x \leq 9.9$	$9.9 < x \leq 10.2$	$10.2 < x \leq 10.5$
<i># of boxes</i>	15	35	85	15

(a) Find the mean, the median and the standard deviation of the weight.

(b) Construct a pie chart to represent the data.