

BRONX COMMUNITY COLLEGE
of The City University of New York
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Math 23 (nea)
June 12, 2006

First Exam
45 minutes

Type Name: _____

Question:	1	2	3	4	Total
Points:	200	100	400	300	1000
Score:					

1. (200 points) Find the mean, the range and the standard deviation for the following set of sample data. Round your answers to one decimal digit.

10 9 12 11 8 15 9 7 8 6

You may use the following table

<i>x</i>			
10			
9			
12			
11			
8			
15			
9			
7			
8			
6			

2. (100 points) The mean value of the scores in a Statistics exam was 85 with a standard deviation of 4. Find an interval that contains at least 75% of the scores in that exam.

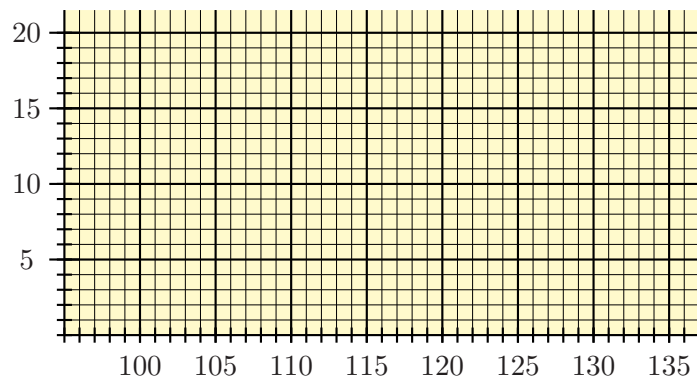
3. The following data represent the record high temperature for each of the 50 states.

112 110 107 116 120 100 118 112 108 113
 127 117 114 110 120 120 116 115 121 117
 134 118 118 113 105 118 122 117 120 110
 105 114 118 119 118 110 114 122 111 112
 109 105 106 104 114 112 109 110 111 114

(a) (300 points) Fill in the following frequency tale (use seven classes):

Classes	Class Midpoint	Tally	f
100–104			
105–109			
110–114			
115–119			
120–124			
125–129			
130–134			

(b) (100 points) Make a histogram from the data in the first part:



4. The following data represent the duration (in days) of U.S. space shuttle voyages for the years 1992-94.

8, 9, 9, 14, 8, 8, 10, 7, 6, 9, 7, 8, 10, 14, 11, 8, 14, 11

(a) (150 points) Find the mode, the median, and the first and the third quartile.

(b) (150 points) Make a box-and-whisker plot of the above data.