Jakarta International School
7th Grade

Data Analysis: Common Assessment - Green
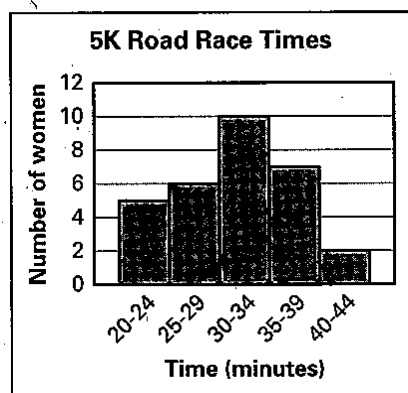
Name:_____

Date:_____

Score: $\overline{25}$

Clearly show required work. Check Carefully!

1. Use the data to make a frequency table and a histogram of the ages of people who went to the quilt convention. (4pts)   USE GRAPH PAPER

    66, 78, 91, 42, 45, 88, 69, 73, 76, 80, 50, 63, 57, 54, 71, 66

2. The histogram shows the times (in minutes) for 30 women who completed a 5K road race.

    5K Road Race Times

    a) Which interval has the greatest frequency? (1 pt)

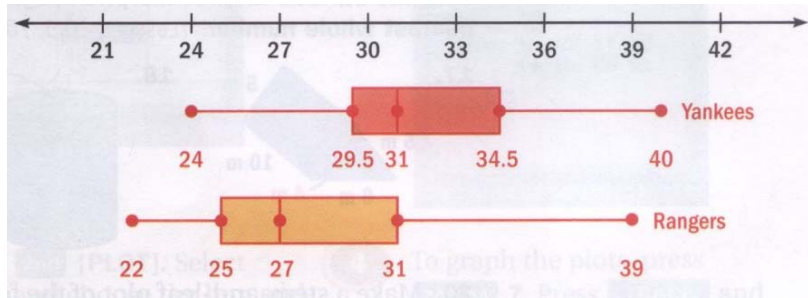   b) About what percent of the participants finished the race in less than 30 minutes? (2pts)

    c) The median men's time in the race is 28 minutes. How does it compare to the women's median time? Explain. (2pts)

3. Match the term with the phrase that best describes the term. Write the corresponding letter in the blank. (3 pts)

    _____ box-and-whisker plot   a. difference of the upper quartile and the lower quartile
    _____ lower quartile   b. least data value
    _____ upper quartile   c. median of the lower half
    _____ lower extreme   d. median of the upper half
    _____ upper extreme   e. data display that organizes data values into 4 groups
    _____ interquartile range   f. greatest data value

4. **BASEBALL** The box-and –whisker plots below show the ages of the players on the New York Yankees and the Texas Rangers baseball teams during the 2002 season.

a. Compare the median, range, and interquartile range for the two teams. (3 pts)

b. About what percent of the Yankees are less than 31 years old? (2 pt)

c. About what percent of the Rangers are greater than 25 years old? (2 pt)

6. The data below are a class's test scores for two tests.

Test 1: 50, 93, 81, 75, 70, 66, 68, 59, 60, 58, 71, 62, 84, 88, 65, 85

Test 2: 65, 73, 84, 92, 87, 83, 80, 77, 67, 74, 75, 81, 90, 88, 78, 85

a. Make a box-and –whisker plot for each data set. Draw both box-and-whisker plots using the **same number line**. (4pts)

b. On test 1 you scored 71. On test 2 you scored 74. On which test did you do better compared with the rest of the class? Explain. (2pts)