Worksheet 6

Question#1

71. Two baseball players, Fredo and Karl, on different teams wanted to find out who had the higher batting average when compared to his team. Which baseball player had the higher batting average when compared to his team?

Baseball Player	Batting Average	Team Batting Average	Team Standard Deviation
Fredo	0.158	0.166	0.012
Karl	0.177	0.189	0.015

Table 2.57

72. Use **Table 2.57** to find the value that is three standard deviations:
a. above the mean
b. below the mean

Question#2

Two swimmers, Angie and Beth, from different teams, wanted to find out who had the fastest time for the 50 meter freestyle when compared to her team. Which swimmer had the fastest time when compared to her team?

Swimmer	Time (seconds)	Team Mean Time	Team Standard Deviation
Angie	26.2	27.2	0.8
Beth	27.3	30.1	1.4

✞ **[Smaller values correspond to faster swim times]**

Question#3

24. Listed are 32 ages for Academy Award winning best actors *in order from smallest to largest.*

18; 18; 21; 22; 25; 26; 27; 29; 30; 31; 31; 33; 36; 37; 37; 41; 42; 47; 52; 55; 57; 58; 62; 64; 67; 69; 71; 72; 73; 74; 76; 77
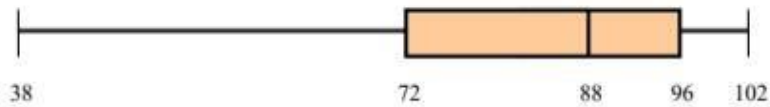
    a. Find the percentile of 37.
    b. Find the percentile of 72.

25. Jesse was ranked 37th in his graduating class of 180 students. At what percentile is Jesse's ranking?

Question#4

The following box-and-whisker plot shows class data from a math test. Answer Questions 2 through 6 based on this graph.

Test Scores (as %) for 9th Period

38	72	88	96	102

2. What was the high score on the test? _____

3. What percent of the class scored above a 72? _____

4. What was the median score on the test? _____

5. What percent of the class scored between 88 and 96? _____

6. Do you think that this test was too hard for the students? Explain. _____