

I pledge my honor that I have neither given nor received inappropriate help on this test.

Sign: \_\_\_\_\_ Date: \_\_\_\_\_

I surveyed a group of 25 Felician College students who I met in the cafeteria at lunch last Wednesday. I asked them to tell me their majors. Here are the results of that survey:

Major # of students

English	9
Math	2
History	4
Nursing	10

1. Construct a relative frequency distribution and a percent frequency distribution of this data.

2. I conclude on the basis of this survey that about 40% of Felician College students are Nursing majors. Is this a valid conclusion? Explain.

3. Identify the relationship shown in each of the following scatter plots: positive, negative, or none.

Scatter plot 1: \_\_\_\_\_

Scatter plot 2: \_\_\_\_\_

Scatter plot 3: \_\_\_\_\_

4. The following list shows the grades of 7 students on a recent quiz. Which is the best measure of the middle: mean or median? Explain.

61, 70, 63, 72, 79, 65, 100

5. What number is at the 25<sup>th</sup> percentile in the above list?