Quiz 4A

Name:

UAlbany Email:

Closed book/notes. Scientific calculators only. You must show all work to receive full credit. Question 1 will consider the sample of size n = 7 below.

71

72

73

74

75

75

78

1. (6 pts.) Fill in the table below.

Lower Fence	Lower Quartile	Median	Upper Quartile	Upper Fence

Questions 2 and 3 refer to the following. A data set of size n=7799 scores was collected from the Town of Colonie Golfers' Loop over calendar-years 2015-2023. A preliminary analysis shows that $\overline{x}\approx 81.006$ and $s\approx 5.658$.

2. (2 pts.) Assume that the data set is well-approximated by a normal curve. Then the central 99.7% of all scores lie in what interval?

3. (2 pts.) A member of the Town of Colonie Golfers' Loop has recorded a score of 75. Compute the z score for this observation. Round your answer to *three* decimal places.

Formulas You may Need:

$$LF = LQ - 1.5IQR$$

$$UF = UQ + 1.5IQR z = \frac{x - \overline{x}}{s}$$

$$z = \frac{x - \overline{x}}{s} \tag{1}$$

Grade: /10