Practice Assessment 4

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Closed book/notes. Scientific calculators only. You must show all work to receive full credit.

1. (6 pts.) Consider the sample of size 7 below.

| 72 | 73 | 74 | 75 | 76 | 76 | 79 |

Fill in the table below.

Lower Fence	Lower Quartile	Median	Upper Quartile	Upper Fence

Questions 2 and 3 refer to the following. A sample of 483 NBA games was selected for an analysis of competition level. Preliminary calculations show that the average margin of victory was 9.645 points with a standard deviation of 2.807 points.

2. (2 pts.) Assume that the data set is well-approximated by a normal curve. Then the central 95% of all scores lie in what interval?

3. (2 pts.) A particular NBA game had a margin of victory of 13 points. Compute the z score for this observation. Round your answer to *three* decimal places.

Formulas You may Need:

$$LF = LQ - 1.5(IQR) \qquad UF = UQ + 1.5(IQR) \qquad z = \frac{x - \overline{x}}{s} \qquad (1)$$