Math 153 - Quiz 4

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	J	Score	

Show all work to receive full credit. Supply explanations when necessary.

1. (6 points) The following numbers are the ages of the U.S. presidents at inauguration.

These are the ages of the U.S. vice presidents at inauguration.

For each group, find the quartiles, the interquartile range, and the outlier cutoff values. Then construct and compare the modified boxplots, indicating outliers with asterisks.

PRESIDENTS

$$Q_3 = 57.5$$

CUTOFFS:

68 \$ 69 ARE OUTLIGES.

VICE PRESIDENTS

CUTOFFS:

No outliers.

2. (2 points) Compute the z-score associated with the youngest president. Was that president unusually young?

$$X = 4a$$

$$7 = \frac{49 - 54.659}{6.258} \approx (-2.02) < -2$$

3. (2 points) Compute the z-score associated with the oldest vice president. Was that vice president unusually old?

$$X = 71$$

NOT UNUSUAL.

