

Name: \_\_\_\_\_

Show work needed to justify your answer.

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

HW: # 26c: Math IBSL - Standard 25 - Measures of Dispersion (day 4)

5 points

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- 1 a** Find the mean, median and mode of 1, 3, 5, 5, 8.
- b** Add 4 to each value and find the mean, median and mode of the new data set.
- c** Describe the effect that adding 4 to each value has on the mean, median and mode.

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- 2 a** Find the standard deviation and variance of the set 7, 9, 3, 0, 1, 8, 6, 4, 10, 5, 5.
- b** Multiply each member of the data set by 3 and find the new standard deviation and variance.
- c** Describe the effect that multiplying each member by 3 has on the mean and standard deviation.

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**3** The mean age of a group of friends at school is 17.2 years, their median age is 17, and the standard deviation of their ages is 0.5 years. They meet again 4 years later at a school reunion. What are the new mean, median and standard deviation of their ages?

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**4** All of the items in a data set are doubled. State which of the following are also doubled: mean, median, standard deviation, variance.