1.3 Homework

1. Consider the following three Data Sets A, B, and C

$$A=\left\{1, 2, 3, 4, 5\right\}$$

$$B=\left\{2, 2, 2, 2, 2\right\}$$

$$C=\left\{3, 5, 7, 11, 14\right\}$$

* 1. Calculate the mean and median of each data set.
	2. Which set has the greatest standard deviation? How do you know?
1. Periods 3 and 4 (both with 30 students in the class) take a quiz. Both classes have perfectly symmetrically distributed scores with a mean score of 5 out of ten.
	1. What is the mode score? What is the median score?
	2. Period 3’s scores have a lower standard deviation than period 4’s scores. Sandra says that this means that more people in period 3 got a score of 5 than in period 4. Do you agree with Sandra? Draw a sketch of each distribution to support your answer.

Period 3 Sketch: Period 4 Sketch:

Do you agree or disagree? Why?