

3-28-18

Aim: SWBAT do their best on the quiz.

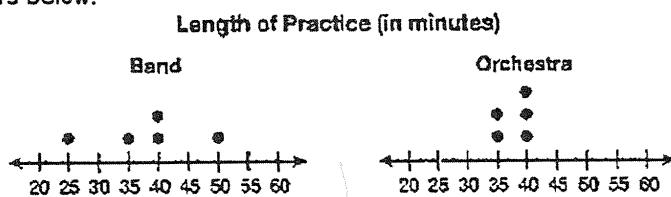
HW: Toss a coin 50 times. Record the results on Packet Page 39.

Do Now: Correct hw

6. Which of the following statements is true?

- a. The variability in the times of the folk songs is about half that of the pop songs
- b. The variability in the times of the folk songs is about twice that of the pop songs
- c. The variability in the times of the folk songs is about 3 times that of the pop songs
- d. The variability in the times of the folk songs is about 4 times that of the pop songs

7. The lengths, in minutes, of the school band and orchestra practices are shown in the dot plots below.



A. What is the mean absolute deviation, in minutes, of the length of each group's practice?

$$\text{Mean} = \frac{25 + 35 + 40 + 40 + 50}{5} = \frac{190}{5} = 38$$

$$\text{MAD} = \frac{|3+3+2+2+12|}{5} = \frac{32}{5} = 6.4$$

$$\text{Mean} = \frac{35 + 35 + 40 + 40 + 40}{5} = \frac{190}{5} = 38$$

$$\text{MAD} = \frac{|3+3+2+2+2|}{5} = \frac{12}{5} = 2.4$$

B. Compare the MADs. (How does the variability in the length of band practice compare to the variability in the length of orchestra practice?) Explain your thinking.

The BAND's practice has a high variability compared to the Orchestra's low variability. On average, band practice was 6.4 minutes from the mean and on average, orchestra practice was 2.4 minutes from the mean.