Coordinate Algebra   Name: _____
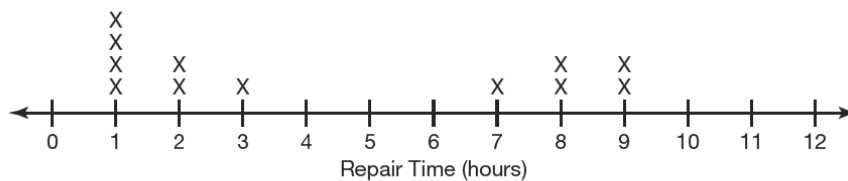Unit 4 Assessment 2 Review
Show all work!

1. Create a box and whisker plot for the following data. Identify any outliers. **(S.ID.3)**
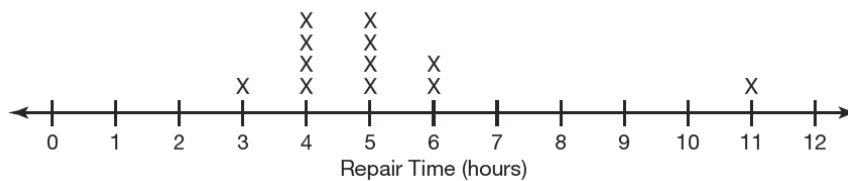
$$22, 19, 20, 20, 21, 25, 10, 8, 18, 28, 32, 24, 25$$

Dannette and Alphonso work for a computer repair company. They must include the time it takes to complete each repair in their repair log book. The dot plots below show the number of hours each of their last 12 repairs took. Use the dot plots to answer #2-4.

Dannette's Repair Times

Repair Time (hours)

Alphonso's Repair Times

Repair Time (hours)

2. Which measure of center best describes Alphonso's typical repair time. **(S.ID.2)**

3. Describe the data distribution in the context of repair times for Dannnette and Alphonso. **(S.ID.3)**

4. Who would you want to fix your computer? Support your answer. **(S.ID.3)**

5. Describe the spread of the data using mean absolute deviation.   **(SID.2&3**)

5. **(SID.2)** a) Find the mean absolute deviation for the following data: 1, 1, 3, 5, 5, 6, 8, 11

b) What does adding the data value of 2 do to the MAD?

6. Listed below are the Hawk's scores for their first and last (before last night) 10 games of their season so far:

   First Ten: 102, 102, 92, 119, 103, 91, 100, 114, 94, 109

   Last Ten: 93, 107, 110, 105, 105, 120, 106, 96, 107, 115

   a) Compare the measure of spread for the two sets of data using the mean absolute deviation. **(SID.2)**

   b) If last night they won with a score of 115, what would that do to the mean and median of the last set of data? **(SID.1)**

7. **Create a histogram** for the following data.

                89, 71, 83, 95, 75, 87, 68, 91, 88, 65, 77, 94, 82, 52, 90, 73, 80, 83

   Describe the most appropriate measure of central tendency for the data and its shape.