Pre-Calculus Stat Chapter 3 Review Name_____

SHOW ALL WORK. Answer the following questions and put your answers in the answer blank.

Use the following set of data to find the answers to problems 1-11:
8, 8, 10, 11, 15, 12, 13, 13, 11, 9, 4, 3, 11, 14, 16, 11, 4, 21

1. Mean **1.**_____

2. Median **2.**_____

3. Mode **3.**_____

4. Sx **4.**_____

5. σx **5.**_____

6. CV (Coefficient of Variation) **6.**_____

7. Sample Variance **7.**_____

8. A 10% trimmed mean **8.**_____

9. Give the 5 number summary

9. Min=_____

Q1=_____

Med=_____

Q3=_____

Max=_____

10. Make a Box-and-Whisker plot

---

11. Using Chevbychev's theorem (and assuming the data is a sample) find an interval for which you are assured that at least 75% of data. **11.**_____

12. The date below represents the number of pumpkins produced in a sample from local pumpkin patches. Using this data, find the sample mean and the sample standard deviation.

$\bar{x}$ =_____

Sx=_____

Weight in lbs	Number (f)
1-4	5
5-8	7
9-12	11
13-16	15
17-20	6

13. A college class gives 4 scores (each worth 100 points). Homework is worth15% of the grade, the midterm is worth 30% of the grade, the final is worth 45% of the grade and 10% of the grade is based on the reading summary. If Sharon got a 86 on Homework, 79 on the midterm, 91 on the final and only a 57 on the reading summary, calculate Sharon's final grade.