

Honors Statistics

2.5 Measures of Variation

Find the standard deviation of each data set. Show all work.

1. 5 5 7 8 8

2. 3 4 4 5 5 9

3. 2 2 2 3 7 8 8 8

4. 8 10 12 14 16

Find the standard deviation of the frequency distribution.

5. The chart represents the results of a random sample of the number of pets per household in a region.

Number of Pets	Frequency
0	5
1	11
2	7
3	10
4	7

6. The chart represents the results of a random sample of households in a region and the number of cars per household.

Number of cars	Frequency
0	3
1	15
2	24
3	8

Answers

1. 1.517
2. 2.098
3. 2.976
4. 3.162

5. 1.328
6. .803