Assignment

Answer the following questions.

1. Find the mean of the following: 0.09,0.24,0.77,0.5,0.24 2.

2. Find the median of a list of integers from −5 to 4

3. Find the range of the following prices listed across items for an annual day sale:

   $20,$17,$17,$15,$14,$18,$23,$22,$21,$24

4. Shonda met with her son's English class teacher at parent conferences. The teacher told Shonda that her son got 78, 89, 63, and 82 on his first four tests. There is one test left and he needs to increase his average to 80% to get a B in the class.

   a. What is her son's average in English class now?

      Ans: (78 + 89 + 63 + 82 divided by 4 = 312/4 = 78%)

   b. Is this the mean, the median, or the mode?

      Ans: (mean)

   c. By what percent does he need to increase his test scores?

      Ans: (2%)

   d. Does this mean he needs to get 80% on the last test?

      Ans: No, 80% is the average of all 5 tests

   e. What does he need to get on the last test to have an 80% average?

5. A survey was conducted to determine how people feel about the quality of programming available on television. Respondents were asked to rate the overall quality from 0 (no quality) to 100 (extremely good quality). The stem-and-leaf display of the data is shown below.

   What percentage of the respondents rated overall television quality as very good (regarded as ratings of 80 and above)?

Stem	Leaf
3	2 9
4	0 3 4 7 8 9 9 9
5	0 1 1 2 3 4 5
6	1 2 5 6 6
7	1 9
8	
9	6

6. A data set contains the observations 7, 4, 2, 3, 1. Find $\left(\sum x\right)^2$.