Indicate whether quantitative data are discrete or continuous.

1. the number of pairs of shoes you own.
2. the type of car you drive.
3. where you go on vacation
4. the distance it is from your home to the nearest grocery store.
5. the number of classes you take per school year.
6. the tuition for your classes.
7. number of correct answers on a quiz.
8. movie ratings.
9. political party preferences.
10. weights of sumo wrestlers.

a. AIDS data indicating the number of months a patient with AIDS lives after taking a new antibody drug are as follows: ***3; 4; 8; 8; 10; 11; 12; 13; 14; 15; 15; 16; 16; 17; 17; 18; 21; 22; 22; 24; 24; 25; 26; 26; 27; 27; 29; 29; 31; 32; 33; 33; 34; 34; 35; 37; 40; 44; 44; 47***
Calculate the mean and the median.

b. The following data show the number of months patients typically wait on a transplant list before getting surgery: **3; 4; 5; 7; 7; 7; 7; 8; 8; 9; 9; 10; 10; 10; 10; 10; 11; 12; 12; 13; 14; 14; 15; 15; 17; 17; 18; 19; 19; 19; 21; 21; 22; 22; 23; 24; 24; 24; 24.** Calculate the mean and median.

c. Statistics exam scores for 20 students are as follows: **50; 53; 59; 59; 63; 63; 72; 72; 72; 72; 72; 76; 78; 81; 83; 84; 84; 84; 90; 93.** Find the mode.

d. The number of books checked out from the library from 25 students are as follows: **0; 0; 0; 1; 2; 3; 3; 4; 4; 5; 5; 7; 7; 7; 7; 8; 8; 8; 9; 10; 10; 11; 11; 12; 12**. Find the mode.

e. The average weekly unemeployment benefits for a random selection of states are listed below. Calculate the range, variance, and standard deviation for the data**. 239, 214, 327, 416, 321, 289, 209, 356, 190, 272, 252, 272, 310, 276, 251.**