

5. Twenty test scores are given below.

31	30	23	27	19
26	28	38	17	29
26	34	21	32	32
22	12	26	39	25

(a) Make a grouped frequency table for these scores, using 10 to start the first class and having interval size 5.

(b) Draw a histogram for the grouped data.

(c) Draw an ordered stem-and-leaf plot for the data.

(d) Construct a box plot for the data.

6. Explain how to determine if a score is an outlier when constructing a box plot.

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7. (a) The mean age of members of a class reunion was 71.9. The next year the mean age was 71.5 years. How can the mean age decrease when all the class members are a year older?
- (b) The mean age of 10 persons in a room is 15 years. A 50-year-old person walks in. How much is the mean increased? _____
8. If all the students in the class scored 100 on an exam, what is the standard deviation? Tell why you answered the way that you did. _____
9. An advertisement claims, "Four out of five doctors surveyed recommend Tryit for their patients with arthritis." Discuss why you would or would not accept this as a valid claim to product superiority.