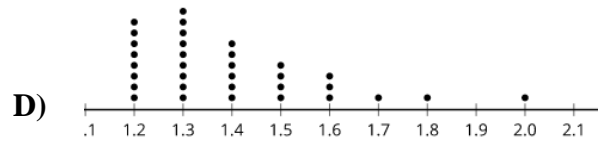
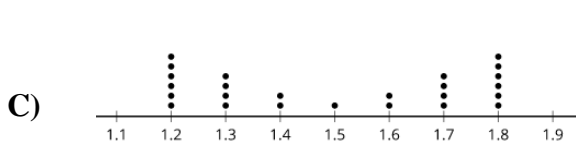
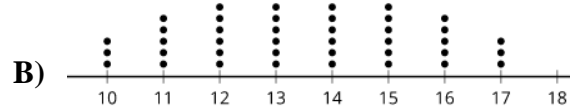
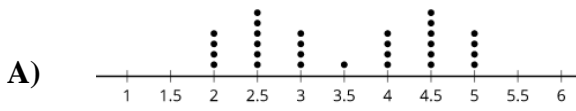


Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_ Score \_\_\_\_\_

Refer to the dotplots below for questions 1 – 3:



1. Which of the dotplots show a symmetric distribution?

1. \_\_\_\_\_

2. Which of the dotplots show a skewed distribution?

2. \_\_\_\_\_

3. Which of the dotplots show a bimodal distribution?

3. \_\_\_\_\_

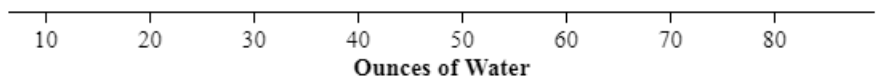
4. Create a dot plot showing a uniform distribution.

\_\_\_\_\_

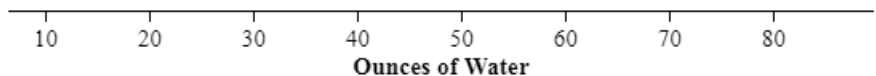
5. The data represent the number of ounces of water that 26 students drank before donating blood:

8, 8, 8, 16, 16, 16, 32, 32, 32, 32, 32, 32, 64, 64, 64, 64, 64, 64, 80, 80, 80, 80, 88, 88, 88

a) Create a DOT plot for the data.



b) Create a BOX plot for the data.



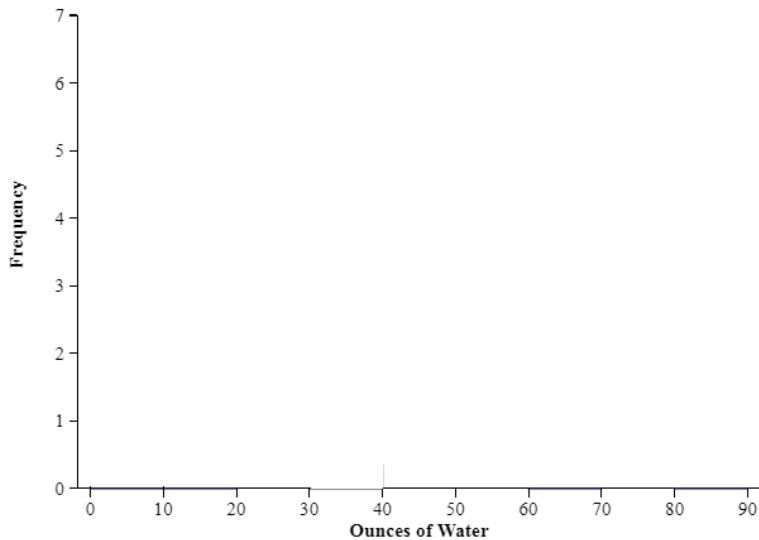
c) What information about the data is provided by the BOX plot that is NOT provided by the DOT plot?

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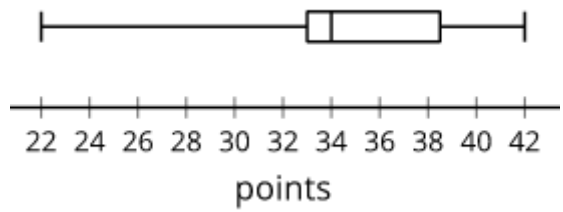
d) What information about the data is provided by the DOT plot that is not provided by the BOX plot?

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e) It is recommended that students drink 48 or more ounces of water. Create a histogram that you could use to easily display the number of students who drank the recommended amount.



6. The box plot represents the distribution of the number of points scored by a cross country team at 12 meets.



a) If possible, find the mean. If not possible, explain why not.

a) \_\_\_\_\_

b) If possible, find the median. If not possible, explain why not.

b) \_\_\_\_\_

c) Approximately what percent of the 12 meets did the team score above 33 points?

c) \_\_\_\_\_