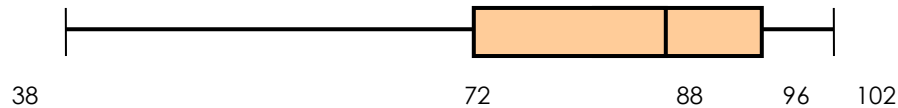


Name: _____ Date: _____

HW: Data analysis and probability review

For questions 1 – 6, refer to the box & whisker graph below which shows the test results of a math class.

Test Scores (as %) for 4th Block

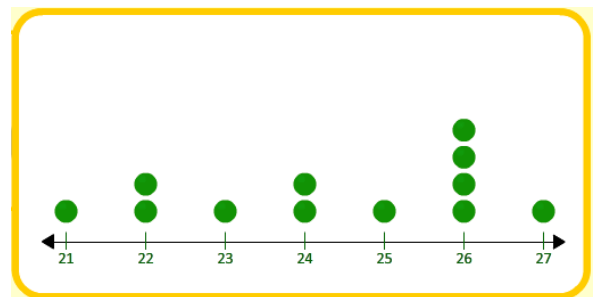


- _____ 1. What was the high score on the test?
- _____ 2. What percent of the class scored above a 72?
- _____ 3. What was the median score on the test?
- _____ 4. What percent of the class scored between 88 & 96?
5. Do you think that this test was too hard for the students? Explain.

- _____
6. Would you expect the mean to be above or below the median? Explain.
- _____

Use the dot plot about ages of people at a local club to answer questions #7-10

7. Which of the following sets of data could be represented by the dot plot shown?
- A. 24, 24, 21, 26, 27, 26, 25, 23, 22, 26, 26, 22
- B. 20, 21, 24, 27, 26, 25, 26, 22, 23, 26, 22, 26
- C. 24, 24, 26, 21, 26, 27, 23, 25, 26, 22, 26, 29
- D. 21, 21, 21, 26, 27, 26, 25, 23, 22, 26, 26, 22



8. What is the spread of the data?
9. What is the center of the data?
10. How many people were 25 or older at the club?

Aaron works for a local movie theater and he is conducting a survey of what kind of concessions people purchase at his theater. On a Thursday night he watched 105 enter the theater. He made the following observations, out of the 84 people who had popcorn only 10 did not have a drink. He also noted that six people walked in without a popcorn or a drink.



11. Complete the joint and marginal frequencies in the table below

	Drink	No Drink	Totals
Popcorn			
No Popcorn			
Totals			

12. What is the probability that a person entering the theater had a drink and popcorn?

13. Out of the people with a drink, what is the probability that they did not have popcorn?

14. What is the probability that a person did not have a drink or popcorn?

15. If a person entered the theater without a drink, what is the probability that they did have popcorn?

For each of the following describe if the distribution would be normal, left skew, or right skew

16. The ages of people with heart conditions

17. The ages of people at a playground

18. The shoe size of every member of the marching band