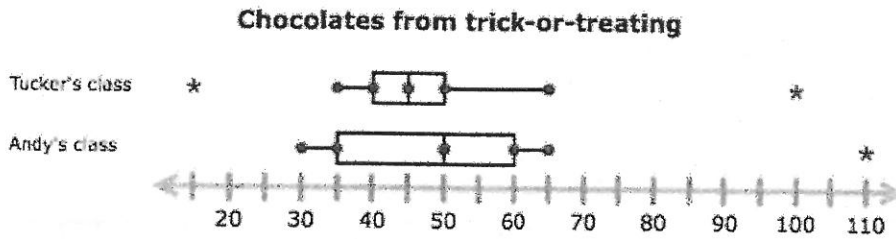


- Dr. Underwood had two of her patients, Tucker and Andy, ask their classmates how many pieces of chocolate they received while trick-or-treating this year. These box-and-whisker plots show the results.



- What percent of students in Andy's class received between 50 and 60 pieces?
- What do you think the asterisks represent?
- What is the IQR of Andy's class?
- Which class has a more closely clustered data?
- Would 85 pieces of candy be an outlier for...
 - Tucker's class?
 - Andy's class?

- 19 Kindergarten were interviewed on what they drank with lunch. The interviewers were surprised that only 3 kids had juice with lunch. Fill in the 2-way table, then answer the questions.

Drinks	Boys	Girls
Milk		6
Water	3	2
Juice		1

- What percent of interviewed students drink milk with lunch?
- What percent of boys drink juice?

- Explain how an outlier with a small value will affect the mean.
- Explain how an outlier with a small value will affect the median.
- Create a set of data with at least 6 points with a mean of 6 and a mode of 7.
- Emily's teacher told her she has an 83% average on tests after taking 2 tests so far this year. She looked in Her backpack and found 1 test with a score of 70%. What did she score on the second test?

7. The scores of 10 students in Mr. Difcil's class are 65, 60, 64, 61, 66, 67, 67, 67, 62 and 77.

- a. Find the mean of the scores.
- b. Find the standard deviation of the scores.

8. Make a Box & Whiskers Plot of these weights (in pounds).

95, 110, 120, 97, 100, 135, 140, 108, 180, 146, 121, 117,



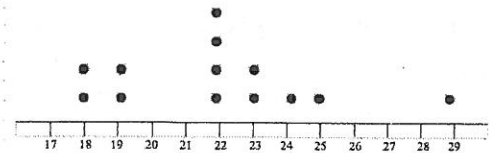
9. Is there an outlier in #8? If so, what is it and how did you determine it was an outlier?

10. The table shows salaries for a company's employees.

Yearly Salaries	
21,500	22,000
21,750	22,000
21,750	22,350
21,800	47,500
22,000	53,000

- a. Find the median salary.
- b. Find the mean salary.
- c. Which measure of center do you think is a better description of what people at the company earn? Give a reason for your answer.

11. Find the (3) measures of central tendency for the data at right.



12. The mean for the following data set is 8. What is the value of x ?

$$\{10, 5, 12, 6x + 3, 4\}$$

13. The dot plot below compares the number of minutes 30 flights made by 2 different airlines arrived before or after their scheduled arrival times. Which airline would you rather book with. Defend your choice and use the ideas of center and spread in your answer.

