

1. Use the following numbers to answer the questions:

2 4 5 7 11 16 18 19 22 23 23 27 33 41 55

- A. IQR _____ F. Construct a Stem Plot
B. Median _____
C. Quartile 1 _____
D. Quartile 3 _____
E. Range _____

2. Use the following numbers from a sample to answer the questions:

5 11 13 18 21

- A. Mean: _____ B. Variance: _____ C. Standard Deviation: _____

3. The following table is the prices and the number of times I paid that price to go to baseball games this season. Tell me the average price I paid this season.

Price of Ticket	# of Tickets
\$1	8
\$3	21
\$8	17
\$15	15
\$40	8

Average Price: _____

4. The average cell phone bill is \$78 with a standard deviation of \$10. What is the minimum percentage of cell phone bills that will be between \$54 and \$102.

5. Use the following table to answer these questions:

	Male	Female
Doctorate	40	30
Masters	50	60
Bachelors	70	80
Associates	80	50

A. What is the probability of a male student?

B. What is the probability of not selecting a masters degree?

C. What is the probability of selecting a bachelors degree given that they are female?

D. What is the probability of selecting a female associates degree student?

E. Given that the person is a doctorate, what is the probability that they are female?

F. What is the probability of selecting a female or a masters degree?

6. There are 16 Twinkies, 12 are good and 4 are bad.

- A. If you pack 2 of the Twinkies for lunch, what is the probability that at least one is good?
- B. If you pack 3 of the Twinkies for lunch, what is the probability that they are all good?
7. The New York State Lottery has 50 balls and they pick 5. How many different winning combinations can there be?
8. You have 6 cars parked in your garage. How many different ways can you park them in your garage if there are 6 spots in your garage?
9. There are 30 students in the class. We are have an election for president, vice president and treasurer? How many different ways can these offices be represented by the students in the class?
10. In how many distinguishable ways can the letters in the word **STATISTICS** be written?