1. a) Population is the students at the school. Parameter is the strictness of parents

b) Survey

c) Answers Vary

d) List all students by ID number and use a random number generator to choose 100 students

2. Option 3- most random and unbiased able to get

3. 84% are shorter than 68 inches. 25% are shorter than about 62 inches

4. a) Breaths: , Median = 11, Mode = None, Range = 7,

Blinks: , Median = 27, Mode = 27, Range = 10,

b) Breaths: , Median = 13, Mode = None, Range = 7,

c) Blinks: , Median = 13.5, Mode = 13.5, Range = 5,

5. There’s two outliers in each data set that will affect the mean

6. a) 95% confident that will be between 97.5472 and 98.2528

b) 95% confident that will be between 98.2668 and 98.9332

c) Margin of error for women is larger because that data has a larger standard deviation

7. a) 47.5% b) 83.85% c) 81.5% d) 16% e) 97.5% f) 97.5%

8. a) self-select; biased

b) convenience- biased

c) random- unbiased

9. a)

b)

The interval likely to contain the percent of patients that agree is 67.5% to 76.9%

10. a) Survey

b) Observation

11. 90% confident that will be between 63.61 and 64.99

12. Min = 8, Q1 = 12, Median = 15, Q3 = 17, Max = 20

13. Answers May Vary. Sample answer:

Flip 20 coins at one time. Let Head be a correct response and Tail be an incorrect response. Count the number of coins that land on head and record the result. Complete 100 trials of the simulation.