

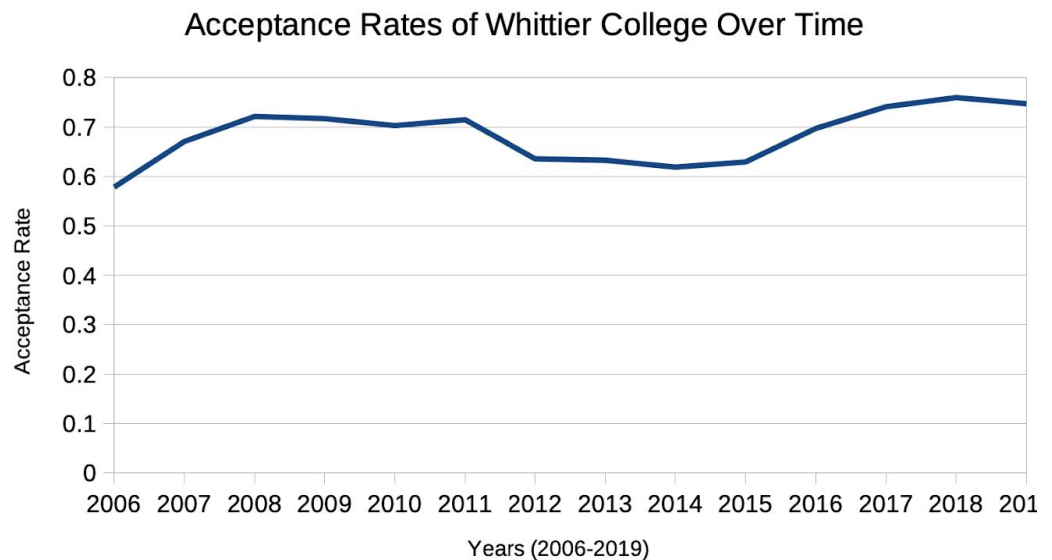
1.

- a. Sample size: $S = \{59, 60, 70, 75, 76, 77, 78\}$
- b. Mean: 72.2 bpm
- c. Standard deviation: 7.0364
- d. The sample is too small to be accurately representative of the entire student population at Whittier College. To get a more complete sample of the population, we could measure the resting heart rates of at least three students from each class, without the effects of coffee and during a normal week, not finals week, when everyone is typically stressed out and on edge.

2.

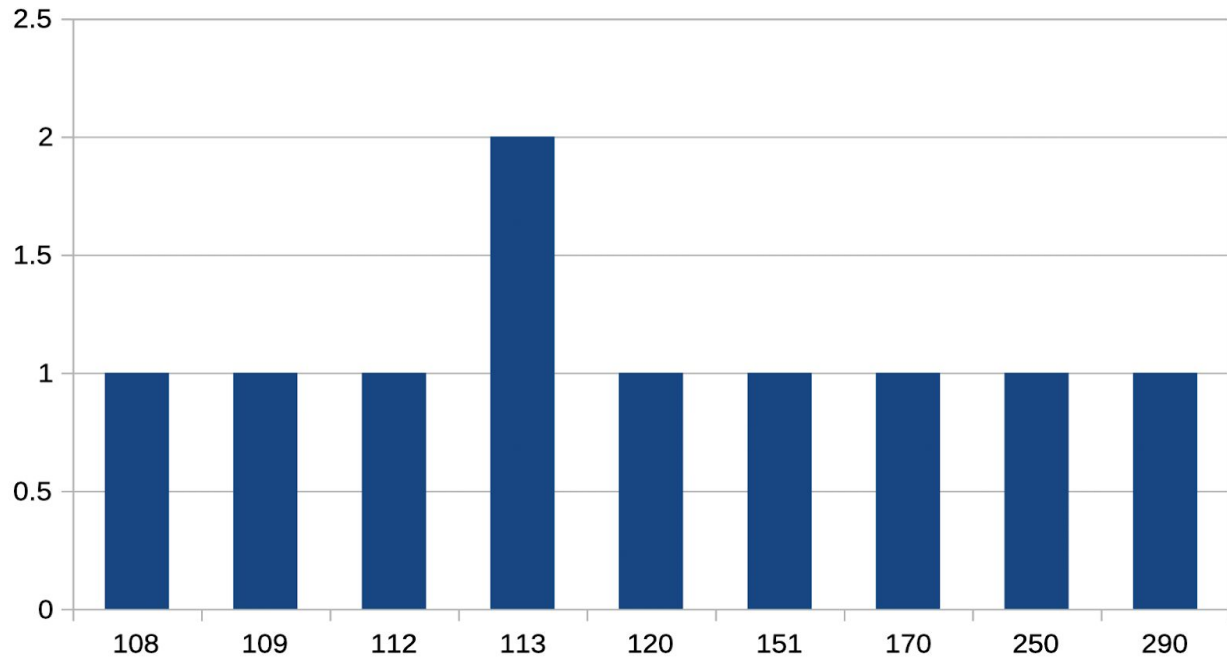
- a. 425.21
- b. Average acceptance rate: 68.32%
- c. Standard deviation: 0.0558, no outliers
- d.

Sheet1



3.

- a. 75th percentile: 190
- b. 113 corresponds with the 40th percentile
- c. Mean: 153.6, Standard deviation: 65.32



d. The data is skewed to the right

4.

- a. 1.5625%
- b. 0.0001079

5.

- a. 0.00390625
- b. 0.00390625
- c. Both paths are equally common because the probability and chances of the movements are equal because it is a fair chance.

6. Expectation value of profit of one share: \$0.44, \$440 profit for 1000 shares

7.

a.

0	0	0.000977	00
1	0	0.009766	0.009766
2	0	0.043945	0.087891
3	0	0.117188	0.351563

4	1	0.205078	0.820313
5	0	0.246094	1.23047
6	3	0.205078	1.23047
7	6	0.117188	0.820313
8	0	0.043945	0.351563
9	0	0.009766	0.087891
10	0	0.000977	0.009766

- b. Yes, the participants are guessing randomly because they only had 2.0 seconds to make a decision.
- c. The data is following a binomial distribution.