

Exam 3 Review Problems

November 25, 2019

1. The height of 10 people (in inches) are given below:
63 64 67 60 70 72 61 68 69 75
Write the five number summary for this distribution of heights.
2. Another group of people were surveyed, and their heights are given below:
58 65 60 63 67 61 62 65 69 68
Write the five number summary for this distribution of heights.
3. Draw box plots of the two groups. Is one group generally taller than the other?
4. Compute the mean and standard deviation of the first group. Why range of heights would 68% of the population fall into?
5. Compute the mean and standard deviation of the second group. Why range of heights would 68% of the population fall into?
6. In the game of Monopoly, players roll a pair of six sided dice to determine how many squares to move. If they roll “doubles”, which means the same number is showing on both dice, they get to take a second turn. What is the probability of rolling doubles?
7. If a Monopoly player rolls doubles three times in a row during a single turn, they are sent to jail. What is the probability of this occurring?
8. Draw a histogram which represents a symmetric distribution.
9. Draw a histogram which represents a distribution with left skew.
10. Draw a histogram which represents a distribution with right skew.