13.6 Using Measures of Central Tendency

1. The heights of eight bean plants are 28, 36, 41, 50, 35, 42, 46, and 52.
   1. What is the range of the bean plant heights?
   2. Find the mean, median, and mode(s) of the bean plant heights.
   3. Which measure of central tendency best represents the data? Explain.
2. Find the mean, median, and mode of the data in the frequency table.

|  |  |
| --- | --- |
| Scores | Frequency |
| 59 | 4 |
| 68 | 2 |
| 72 | 8 |
| 78 | 5 |

1. Find the mean, median, and mode of the data in the frequency table.

|  |  |
| --- | --- |
| Football Scores | Frequency |
| 14 | 5 |
| 17 | 4 |
| 21 | 5 |
| 28 | 3 |
| 35 | 2 |

1. Find the mean, median, and mode of the data in the frequency table.

|  |  |
| --- | --- |
| Days absent | Frequency |
| 0 | 10 |
| 1 | 3 |
| 2 | 6 |
| 3 | 0 |
| 4 | 1 |
| 5 | 1 |

1. You have scored 67, 89, 75, and 91 on four of your five tests for the semester. You have set the goal of having a test average of 82 or better. What is the lowest test score you can get on your last test to meet your goal?
   1. 70
   2. 76
   3. 83
   4. 88
2. So far this season, your golf scores have been 90, 108, 88, 75, 95, and 101. You will golf one more time this season, and want to finish the season with an average of 90 or less. What is the highest score you can get and still meet your goal?
   1. 67
   2. 70
   3. 81
   4. 90
3. At a horseback riding competition in the Olympics, each rider receives a score from 2 judges. The final score for each rider is the mean of the 2 judges’ scores. Maddy was one of the riders in the competition. If one judge awarded Maddy a score of 87, and Maddy’s final score was 84.5, what score did the other judge award Maddy?
   1. 82
   2. 86
   3. 87
   4. 90
4. Chad recently launched a new website. In the past six days, he has recorded the following number of daily hits: 37, 29, 37, 56, 45, 38. He is hoping at week’s end to have an average number of 40 hits per day. To achieve this, what is the lowest number of hits he could have on the final day?
   1. 30
   2. 34
   3. 38
   4. 40
5. The team scored the following number of runs in their games this season:   
    6, 2, 5, 9, 11, 4, 5, 8, 6, 7, 5  
   They want to end the season with an average of 6 runs per game. What is lowest amount of runs they can score in the final game to meet their goal?
   1. 3
   2. 4
   3. 6
   4. 9