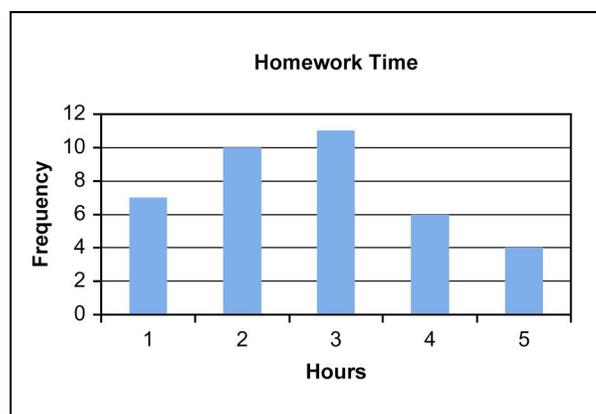


3.4 Measures of Central Tendency

- Find the mean, the median, and the mode for each set of data.
 - 62, 77, 84, 63, 81, 67, 63, 54, 41, 89
 - 4, 1, 13, 8, 1, 0, 2
 - 4.7, 8.3, 2.6, 4.1, 4.9, 5.7, 6.7, 5.4
- When is the median a value in a set of data? When is it not? Explain.
- A company has 200 employees earning \$53 000 per year, 60 employees earning \$63 000 per year, and 5 employees earning \$73 000 per year.
 - Calculate the mean, the median, and the mode salary.
 - Explain why the median is not equal to the average salary of \$63 000 claimed by the company.
- Ms Zhang gave her class a two-question mathematics quiz. 10 students scored 0%, 10 students scored 50%, and 10 students scored 100%.
 - Find the mean, the median, and the mode quiz scores.
 - Explain what each measure of central tendency means.
- Give an example of when each would be the best measure of central tendency.
 - median
 - mode
- Suzie and Vivian played 8 rounds of golf to determine who would get the final spot on the school golf team. Their results are shown in the table.

Round	1	2	3	4	5	6	7	8
Suzie	88	86	84	81	87	86	85	83
Vivian	78	91	85	84	94	77	81	98

- Find the mean, the median, and the mode score for each golfer.
 - Who should be offered the final spot on the team? Explain.
- Max recorded the average number of hours students in his class spend doing homework on the weekend. The results are shown in the graph.



- Find the mean, the median, and the mode of the data.
 - Which measure of central tendency best represents the data?
 - Which measure is easiest to see from the graph?
- Dylan is applying for his pro bowling tour status. He has submitted his last 20 bowling scores: 4 perfect games of 300, 5 scores of 284, 1 score of 281, 6 scores of 270, 1 score of 250, and 3 scores of 225.
 - Find the mean, the median, and the mode scores.
 - Comment on the difference between these values and what it might mean in terms of Dylan's chances of getting his pro status.