|  |  |  |  |
| --- | --- | --- | --- |
| Unit 6 | **Data and Statistics Review** |  | **Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****Hr:**\_\_\_\_\_\_\_\_\_ **Date:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Use the data in the table to answer questions 1 - 6.**

The table shows the amount of money 15 people spent on a ticket to the Cardinals game.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Amount Spent ($)** | $30 | $35 | $40 | $45 | $50 |
| **Number of People** | 1 | 3 | 2 | 5 | 4 |

1. Graph the data in a line plot.
2. Find the modal amount spent per person (mode). **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. Find the range of the data. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
4. Find the median of the amount spent per person. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. Find the mean amount spent per person. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

6. The table below shows the heights (in inches) of 15 students.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 54 | 56 | 56 | 61 | 62 | 65 | 65 | 68 | 69 | 72 | 75 | 75 | 77 | 80 | 81 |

Complete the frequency table.

|  |  |  |
| --- | --- | --- |
| **Height (in.)** | **Tally** | **Frequency** |
| 50-59 |  |  |
| 60-69 |  |  |
| 70-79 |  |  |
| 80-89 |  |  |

Use the frequency table to draw a histogram.



7. Find the mode and range from the line plot.

 **Mode: \_\_\_\_\_\_\_\_**

 **Range: \_\_\_\_\_\_\_\_**



8. Can you use this histogram to determine how many students scored exactly an 83% on the test? Explain why or why not.

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9. Use the box-and-whisker plot to identify the: **Median: \_\_\_\_\_\_**

**Lower extreme: \_\_\_\_\_\_ Upper extreme: \_\_\_\_\_\_**

**Lower quartile: \_\_\_\_\_\_ Upper quartile: \_\_\_\_\_\_**