

COLLECTING AND DESCRIBING DATA

Collecting and describing data refers to the different ways to gather data and the different ways to arrange data whether it is in a table, graph, or pie chart.

- Data can be collected by either taking a **sample** of a population or by conducting a **survey**.
- Describing data looks at data after it has been **organized** and makes conclusions about the data. Many ideas in every day life can be put into a mathematical perspective.
 - Consider a sample of students in a class and their heights: this data can be collected and described by using a bar graph.

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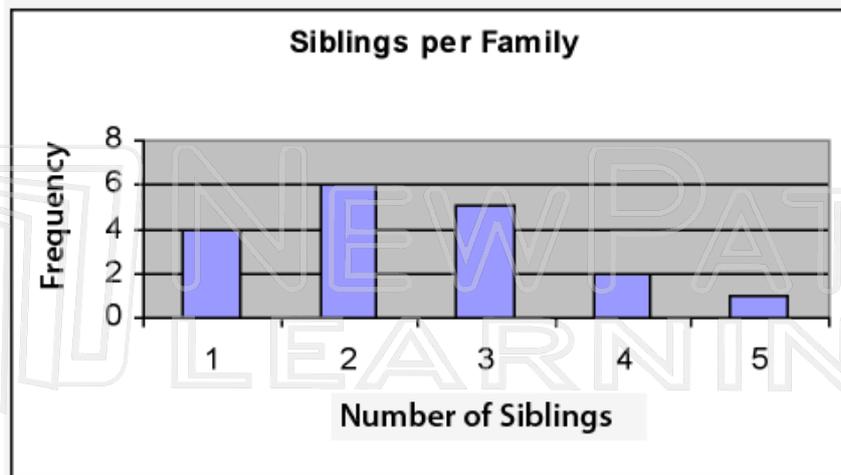
PREVIEW

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stud
table shows the results.

| | | | | | |
|------------|---|---|---|---|---|
| # siblings | 1 | 2 | 3 | 4 | 5 |
| frequency | 4 | 6 | 5 | 2 | 1 |

These results can be made into a bar graph.



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spread out. The standard deviation is the square root of the variance. In a normal distribution, 68% of the data falls within one standard deviation of the mean.

Try This!

1. Based on the graph, what are the mean, mode and median of the data?
2. What is the range and interquartile range?
3. If the variation is 1.211, what is the standard deviation?

A graphic showing a row of diverse children standing on a green patch of grass. Above them are four thought bubbles containing various educational icons: a cube, a microscope, a protractor, a globe, a chemistry flask, a globe, a pencil, a bar chart, a pie chart, a bar chart, a bar chart, and a calculator. The word 'ABC' is also visible in one of the bubbles.

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