

Collecting, Analyzing, and Graphing Data

Collecting and analyzing data can help summarize the trends in data in a visually appealing graph. We'll take a look at some various types of graphs. We will also collect data, organize it in a table, and then make a graph.

Types of Graphs

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Sample uses of graphs

A **line** graph can be used to show the **rise in cost** of a brand name of tennis shoes over the past three years.

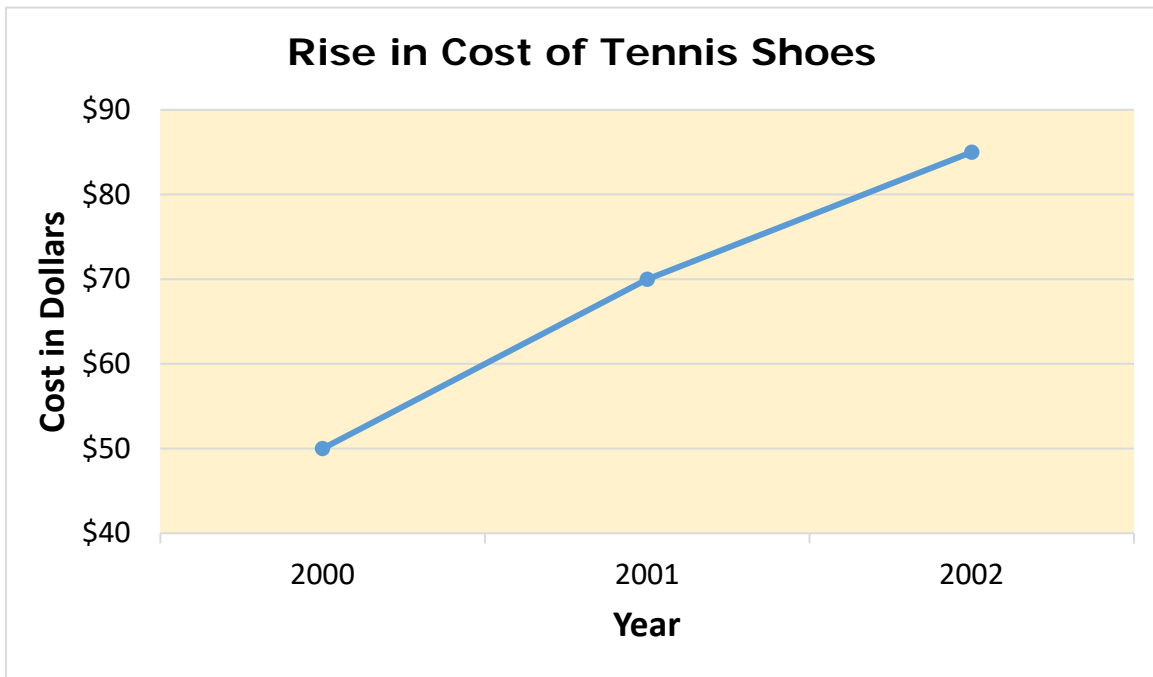
A **bar** graph can be used to show the number of tennis shoes per store **comparing** the sales in four different stores.

A **pie** graph can be used to show the results of a **survey** which type of tennis shoe is the most popular.

A **line plot** can be used to show the **number** of pairs of tennis shoes sold per hour over a 3 hour period.

Type of Graph	Description	Use
line	A graph that uses lines to show changes in data	Shows how data changes over a period of time
Bar	A graph that uses bars to display data	Compares data, usually have a number per category
Pie	A graph that uses a circle to display data	Compares data, usually is the results of a survey of a whole amount
Line Plot	Dots or symbols that represent clusters of data.	Displays the results of a collection of data

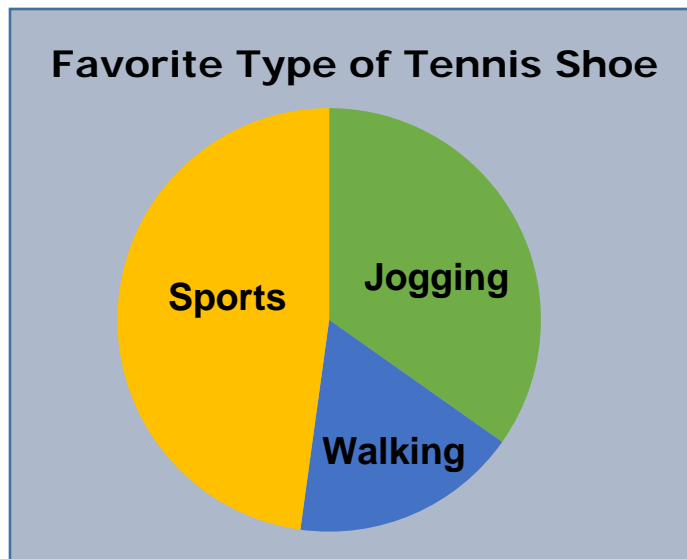
Line Graph



Bar Graph



Pie Chart



Line Plot

