Module 19   Analyzing Data and Statistics
Lesson 2   Interpreting Graphs of Data

guided notes

Lesson Objectives

- Interpret line graphs.
- Interpret bar graphs.
- Interpret circle graphs.

A __line_____ graph is a graph that uses __line segments_____

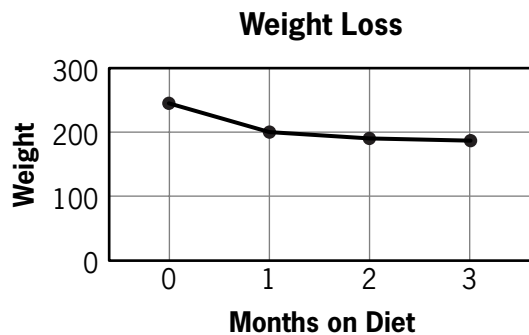between data points to show changes in data over a period of time.

You can use line graphs to look for trends in data.

A __positive_____ slope indicates an increase.

A __negative_____ slope indicates a decrease.

A __steep_____ slope indicates a sharp change.

A horizontal line with a slope of zero indicates __no change_____.

Weight Loss

The line graph shows the progress Newt's father is making on his diet.

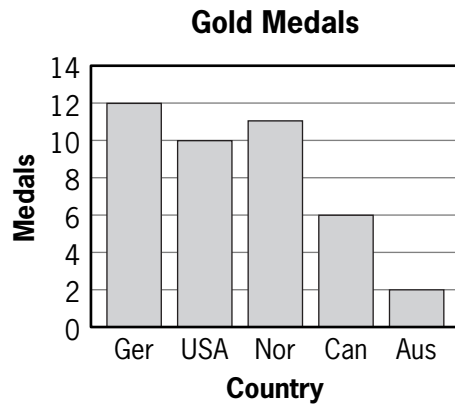**1** ▶ What is the maximum weight displayed on the graph?

   245 lbs.

2 ▶ What trends are displayed on the line graph?

   First month: steep negative slope, most weight lost; next two months:

   slightly negative slope, weight loss leveled off to slow, gradual pace

A **bar** graph is used to compare amounts and uses
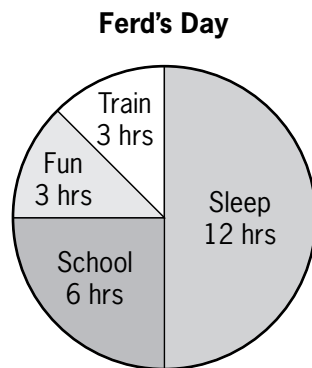
bars to represent data.

Gold Medals

3▷ Use the gold medal graph to list the countries, in order, from most gold medals

won to least gold medals won. **Germany, Norway, United States, Canada,**

and Australia

A circle graph, or pie chart, compares **parts** to a

whole .

The entire circle represents the **whole** .

Each sector of the circle represents **a part** of the

whole .

Ferd's Day

4▷ What fraction of the circle represents sleep? **one-half**

5▷ Which two activities together make up twenty-five percent of the circle?

fun and training