

2-2**Study Guide and Intervention****Bar Graphs and Line Graphs**

A **graph** is a visual way to display data. A **bar graph** is used to compare data.
A **line graph** is used to show how data changes over a period of time.

Example 1 Make a bar graph of the data. Compare the number of students in jazz class with the number in ballet class.

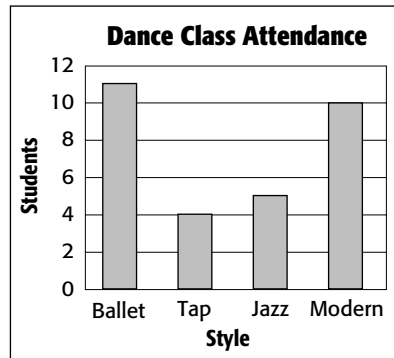
Step 1 Decide on the scale and interval.

Step 2 Label the horizontal and vertical axes.

Step 3 Draw bars for each style.

Step 4 Label the graph with a title.

About twice as many students take ballet as take jazz.



Dance Classes	
Style	Students
Ballet	11
Tap	4
Jazz	5
Modern	10

Example 2 Make a line graph of the data. Then describe the change in Gwen's allowance from 2003 to 2008.

Gwen's Allowance						
Year	2003	2004	2005	2006	2007	2008
Amount (\$)	10	15	15	18	20	25

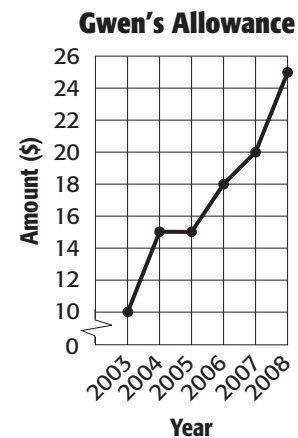
Step 1 Decide on the scale and interval.

Step 2 Label the horizontal and vertical axes.

Step 3 Draw and connect the points for each year.

Step 4 Label the graph with a title.

Gwen's allowance did not change from 2004 to 2005 and then increased from 2005 to 2008.

**Exercises**

Make the graph listed for each set of data.

1. bar graph

Riding the Bus	
Student	Time (min)
Paulina	10
Omar	40
Ulari	20
Jacob	15
Amita	35

2. line graph

Getting Ready for School	
Day	Time (min)
Monday	34
Tuesday	30
Wednesday	37
Thursday	20
Friday	25