

# Chapter 12 Lesson 5

## Interpret Line Graphs

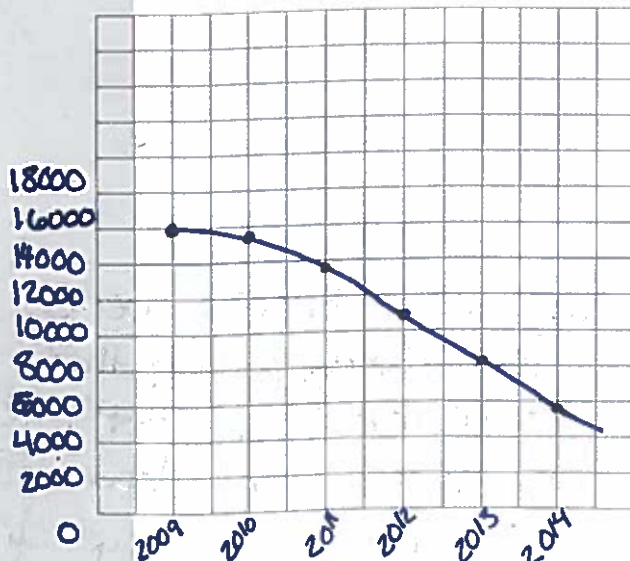
### Make a Line Graph

A **line graph** is used to show how a set of data changes over a period of time. To make a line graph, decide on a scale and interval. Then graph pairs of data and draw a line to connect each point.

#### Example:

Make a line graph of the data. Describe the change in the number of building permits filed from 2005 to 2010.

Number of Building Permits Filed in a Major City						
Year	2009	2010	2011	2012	2013	2014
Building Permits Filed	16,000	15,500	13,900	11,000	8,200	5,900



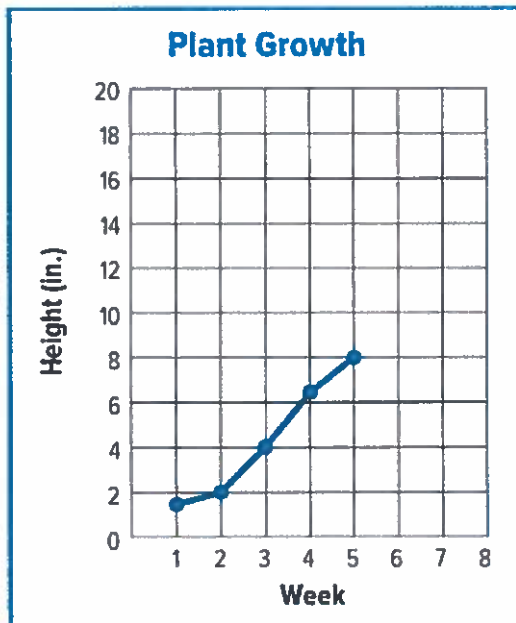
The number of Building permits in decreasing. There was a sharper decrease in 2012 than other years.

# Interpret Line Graphs

By observing the upward or downward slant of the lines connecting the points, you can describe trends in the data and predict future events.

## Examples:

The line graph shows the growth of a plant over several weeks. Describe the trend. Then predict how tall the plant will be at 7 weeks.



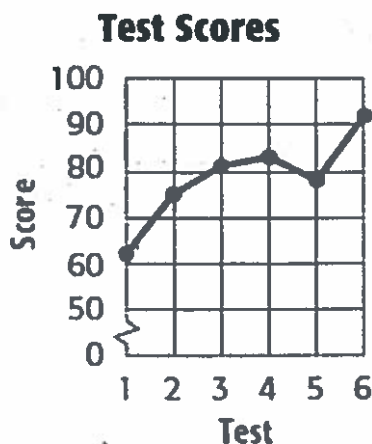
Describe the trend:

The plant grows slowly at first, but then increases steadily.

Prediction at 7 weeks:

about 11 inches.

Describe the change in the test scores from Test 1 to Test 6.



Describe the trend:

The test scores were increasing quickly then slower for tests 3+4 test 5 scores went down. Test 6's scores went up drastically.