

# School-Home Letter

Dear Family,

Throughout the next few weeks, our math class will be working with data and graphs. We will learn how to make and use line plots and line graphs to analyze data and solve problems. We will also learn how to plot and name points on a coordinate grid.

You can expect to see homework that includes making and analyzing line graphs.

Here is a sample of how your child will be taught to interpret line graphs.

## Vocabulary

**interval** The difference between one number and the next on the scale of a graph

**line graph** A graph that uses line segments to show how data changes over time

**scale** A series of numbers placed at fixed distances on a graph to help label the graph

**x-axis** The horizontal number line on a coordinate plane

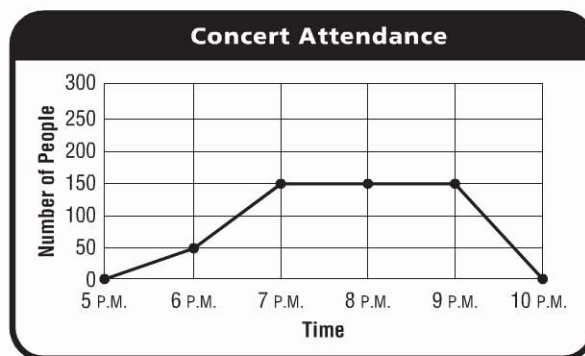
**x-coordinate** The first number in an ordered pair, which tells the distance to move right or left from (0, 0)

**y-axis** The vertical number line on a coordinate plane

**y-coordinate** The second number in an ordered pair, which tells the distance to move up or down from (0, 0)

## MODEL Analyze Line Graphs

This is how we will analyze line graphs.



Use the graph to identify between what times the concert attendance increased the most.

**STEP 1** Look at each segment in the graph.

**STEP 2** Find the segment that shows the greatest increase in number of people between two consecutive points.

The greatest increase in the number of people occurred between 6 P.M. and 7 P.M.

### Tips

#### Choose an Appropriate Graph

The type of data being reported will help determine what type of graph can be used to visually display the data. Line graphs are a good way to display data that change over time.

## Activity

Look through a few newspapers or magazines to find data displays. Then work together to write and answer questions about the information displayed.