

8-6 Study Guide and Intervention

Using Graphs to Predict

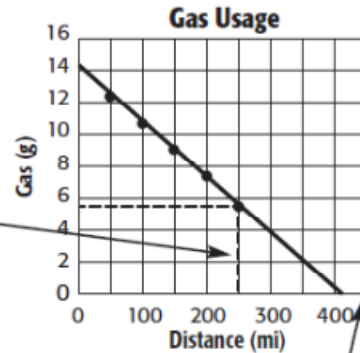
A line graph shows trends over time and can be useful for predicting future events. A scatter plot displays two sets of data on a graph and can be useful for predictions by showing trends in the data.

Example Use the line graph of the Moralez family car trip shown below to answer the following questions.

1. After 250 miles, how much gas did the Moralez family have left?

Draw a dotted line up from 250 m until it reaches the graph and then find the corresponding gas measure.

They will have about 5.5 g left.



2. How far can the Moralez family travel before they run out of gas?

When they run out of gas, the tank will be at 0 so find where the line reaches 0.

They can travel about 410 miles.

Exercises

Use the scatter plot to answer the questions.

- How many birds were there in 2004? **About 50 birds**
- What relationship do you see between the number of birds and year? **Over the years the birds increase.**
- Predict the number of birds there were in the year 2001? **About 27 birds**
- Predict the number of birds there will be in in the year 2006? **75 birds**
- In what year do you think the bird population will reach 100? **2009**

