

KEY CONCEPT OVERVIEW

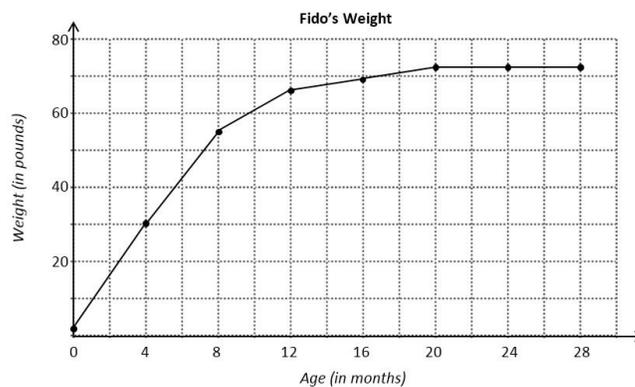
In Lessons 18 through 20, students focus on applications of the coordinate plane in the real world.

You can expect to see homework that asks your child to do the following:

- Draw symmetric figures on the coordinate plane.
- Analyze **line graphs** and explore patterns in the coordinate plane.

SAMPLE PROBLEM *(From Lesson 19)*

The line graph below shows the weight of a German shepherd, Fido, over a period of 28 months. Use the information in the graph to answer the questions that follow.



- a. About how much did Fido weigh at 8 months of age?
Fido weighed about 55 pounds.
- b. How much weight did Fido gain between 4 months and 8 months of age? Explain how you know.
I can find the difference between Fido's weights at those ages. I subtracted 30 pounds from 55 pounds. So he gained 25 pounds between 4 and 8 months of age.
- c. Explain what happened to Fido's weight and to the line on the graph between month 20 and month 28.
The line became horizontal to show that his weight did not change during that time. So Fido's weight stayed the same.

Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at GreatMinds.org.

HOW YOU CAN HELP AT HOME

- Practice analyzing a line graph with your child. Ask her to pick one of the line graphs from her previous work, and analyze it together. You can help by asking guiding questions such as, “What is this line graph about?” “What information does the x -axis show?” “What is the unit?” “What information does the y -axis show and in what unit?” “What did you learn from looking at this graph?”

MODELS

Line Graph

