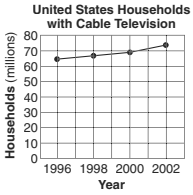
LESSON 7-6 Problem Solving
Line Graphs

Write the correct answer.

The line graph shows the number of households with cable television from 1996 to 2002.



1. About how many households had cable TV in 1998?

   about 67 million

2. About how many more households had cable TV in 2002 than in 1996?

   about 9 million

3. During which two-year period did the number of households with cable TV grow the most?

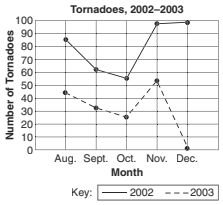
   from 2000 to 2002

4. Use the graph to estimate the number of households with cable TV in 2001.

   about 71 million

Choose the letter for the best answer.

The double-line graph shows the number of tornadoes in the United States during part of 2002 and 2003.



5. Abut how many more tornadoes were there in August 2002 than in August 2003?
   - **A** about 50
   - **C** about 30
   - (B) about 40
   - **D** about 20

6. In which time period did the number of tornadoes increase both years?
   - **F** Sept. to Oct.
   - **H** Nov. to Dec.
   - (G) Oct. to Nov.
   - **J** none

7. Which time period showed the greatest decrease in the number of tornadoes?
   - **A** Aug. to Sept. 2002
   - **B** Aug. to Sept. 2003
   - **C** Oct. to Nov. 2002
   - (D) Nov. to Dec. 2003

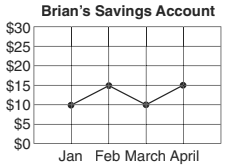
8. During which month was there the greatest difference between the number of tornadoes in 2002 and in 2003?
   - **F** Aug.
   - **H** Nov.
   - **G** Sept.
   - (J) Dec.

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LESSON 7-6 Reading Strategies
Organization Patterns

A **line graph** visually shows data that changes over time. Your height changes from year to year. Sales at a store change from month to month.

In the **line graph** below, look for patterns of change in a savings plan.



Answer the following questions about the line graph.

1. What information is located along the left side of the graph?

   number of dollars

2. In what intervals are the numbers shown on the left side of the graph?

   $5 intervals

3. What information is shown along the bottom of the graph?

   the months during which Brian saved money

Each point on the graph identifies the amount of money saved each month.

4. How much money had Brian saved in February?

   $15

5. How much had Brian saved in April?

   $15

6. Why do you think Brian's savings account dropped between February and March?

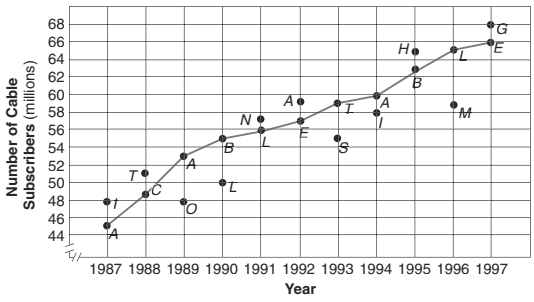
   Possible answer: He spent some of his savings.

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LESSON 7-6 Puzzles, Twisters & Teasers
Rhyme Time TV!

Make a line graph of the data in the table. Think about the data and the way it is presented. Then make a rhyme to answer the riddle by filling in the letter associated with each ordered pair.

What do you call a table that shows information about cable TV?



Year	Number of Cable Subscribers (millions)	Letter to Solve Riddle
1987	45	A
1988	49	C
1989	53	A
1990	55	B
1991	56	L
1992	57	E
1993	59	T
1994	60	A
1995	63	B
1996	65	L
1997	66	E



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LESSON 7-7 Practice A
Choosing an Appropriate Display

Choose the letter of the graph that would best represent each type of data.

1. the number of visitors to a national park in each of the past five years
   - **A** stem-and-leaf plot
   - **B** Venn diagram
   - **C** circle graph
   - (D) line graph

2. the part of a whole group that said yes, no, or no opinion in a survey
   - **F** stem-and-leaf plot
   - **G** Venn diagram
   - (H) circle graph
   - **J** line plot

3. the distribution of heights of 30 boys in a gym class
   - (A) stem-and-leaf plot
   - **B** line graph
   - **C** Venn diagram
   - **D** circle graph

4. the number of students in each of four different clubs
   - **F** circle graph
   - (G) bar graph
   - **H** line graph
   - **J** Venn diagram

The table shows the distances four students ran during one week. Use the data in the table for Exercises 5 and 6.

Student	Miles Run
Janelle	15
Marty	25
Rosa	30
Sidney	10

5. Does the stem-and leaf plot do a good job of representing the data from the table? Explain your answer.

Distances Run

Stems	Leaves
1	0 5
2	5
3	0

Key: 1 | 2 means 12 miles

Possible answer: No. There are only four values, and how often they occur and how they are distributed is not important.

6. Does the bar graph do a good job of representing the data? Explain.



Yes. The bar graph shows how many miles each student ran, and makes it easy to compare the amounts.

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