



Name \_\_\_\_\_ Date \_\_\_\_\_

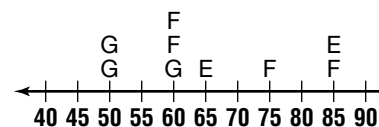
# Line Plots (Pages 153–155)

One of the ways that you can display data is in a **line plot** where you organize data along a number line. Studying data and making observations is called **data analysis**.

<b>Making a Line Plot</b>	To make a line plot: <ul style="list-style-type: none"> <li>• draw and label a number line that includes all the data values.</li> <li>• mark an × (or another symbol) for each data item above the number line.</li> </ul>
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## EXAMPLE

The line plot at the right shows the prices of running shoes in dollars. The ratings are E = excellent, G = good, and F = fair. Would you conclude from this plot that you get better shoes if you pay more? Explain your data analysis.



*For \$65 or more, two pairs of shoes were excellent and two were only fair. All the pairs of shoes that were only fair cost more than two pairs that were rated good. Paying more than \$65 is not a guarantee of getting an excellent shoe.*

## Try These Together

- Refer to the data in Exercise 3. What is the highest value you need to show on a line plot?  
*HINT: What is the greatest age?*
- Refer to the line plot in the example above. What is the most common price?  
*HINT: Which value has the most symbols?*

## PRACTICE

- Make a line plot of the ages of Tonya and her cousins.
 

10	5	6	3	3	8
9	5	3	2	8	7
- Tate surveyed his class to see how many hours of television they watch each week. The results are shown at the right. Make a line plot of the data.
 

7	6	5	7	7	8	5	3	5
6	6	8	3	2	5	8	8	7
- Sports** The Eastwood boys' basketball team played 15 games in one season. The numbers of points they scored in each game are shown at the right. Make a line plot of the data.
 

56	62	54	52	62
58	54	54	60	62
68	52	52	60	64



- Standardized Test Practice** Refer to the line plot in the example above. How much is the least expensive shoe with an excellent rating?

- A** \$60.00                      **B** \$50.00                      **C** \$75.00                      **D** \$65.00

Answers: 1. 10 2. \$60 3–5. See Answer Key. 6. D