NAME _____ DATE _____

2-2 Line Plots (Pages 78–83)

You can display numerical data on a number line with a **line plot**.

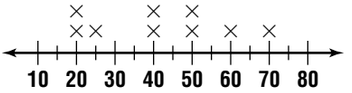
Drawing a Line Plot	• Draw and label a number line. • Choose a *scale* that includes the range of values in the data from the least to the greatest. • Choose an *interval* and divide the number line into these intervals. • Draw the line plot making a mark (such as an ×) above the number line to show each item in the data.

EXAMPLE

Draw a line plot for this data:

20, 40, 70, 50, 40, 20, 60, 25, 50.

These values range from 20 to 70, so the scale on the number line must include these values. An interval of 10 fits this data.



PRACTICE

1. This data shows the weights of infants in a hospital nursery.

90 oz	109 oz	110 oz	134 oz	130 oz	110 oz
110 oz	90 oz	120 oz	125 oz	130 oz	111 oz

a. Make a line plot of the data.

b. What is the greatest weight? Least weight?

c. How many babies weighed 100 ounces or more?

d. How many babies weighed more than 120 ounces and less than 132 ounces?

2. Government Eight cities were graded in how they respond to workers' needs.

a. Make a line plot of the data.

b. Do the personnel grades cluster around any value(s)?

c. Which city was graded lowest?

City	Personnel
Phoenix	A
New Orleans	F
Minneapolis	B
Long Beach	C
Philadelphia	B
Houston	C
Denver	B
Chicago	C

3. **Standardized Test Practice** Use the line plot in the Example. Suppose each data item is the age in years of an adult in the Rodriguez family. If a senior citizen is defined to be a person 60 years or older, how many of the adults in the Rodriguez family are senior citizens?

A 1 **B** 2 **C** 4 **D** 6

Answers: **1a.** See Answer Key. **1b.** 134 oz; 90 oz **1c.** 10 babies **1d.** 3 babies **2a.** See Answer Key. **2b.** yes, around B and C **2c.** New Orleans **3.** B