1-8

Study Guide and Intervention (continued)

Graphs and Functions

Draw Graphs You can represent the graph of a function using a **coordinate system**. Input and output values are represented on the graph using **ordered pairs** of the form (x, y). The x-value, called the x-coordinate, corresponds to the x-axis, and the y-value, or y-coordinate corresponds to the y-axis. Graphs can be used to represent many real-world situations.

A music store advertises that if you buy 3 CDs at the regular price of \$16, then you will receive one CD of the same or lesser value free.

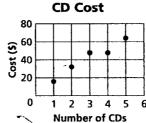
a. Make a table showing the cost of buying 1 to 5 CDs.

Number of CDs	1	2	3	4	5
Total Cost (\$)	16	32	48	48	64

b. Write the data as a set of ordered pairs.

(1, 16), (2, 32), (3, 48), (4, 48), (5, 64)

c. Draw a graph that shows the relationship between the number of CDs and the total cost.



LOOK

PAGE 1 => WORK ON THIS PAGE

LOOK

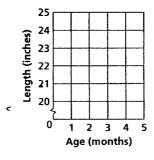
Exercises

PAGEZ => ALL WORK ON LOOSELEAF!

1. The table below represents the length of a baby versus its age in months.

Age (months)	0	1	2	3	4
Length (inches)	20	21	23	23	24

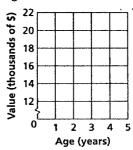
- **a.** Identify the independent and dependent variables.
- **b.** Write a set of ordered pairs representing the data in the table.
- c. Draw a graph showing the relationship between age and inches.



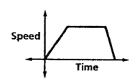
2. The table below represents the value of a car versus its age.

	Age (years)	0	1	2	3	4
- 1	Value (\$)	20,000	18,000	16,000	14,000	13,000

- **a.** Identify the independent and dependent variables.
- **b.** Write a set of ordered pairs representing the data in the table.
- **c.** Draw a graph showing the relationship between age and value.

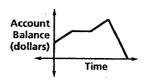


(3)The graph represents the speed of a car as it travels to the grocery store. Identify the independent and dependent variable. Then describe what is happening in the graph.



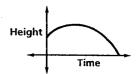
* USE LOOSELOAF

The graph represents the balance of a savings account over time. Identify the independent and the dependent variable. Then describe what is happening in the graph.



* Use LooseLeaf

The graph represents the height of a baseball after it is hit. Identify the independent and the dependent variable. Then describe what is happening in the graph.



* USE LOOSELEAF

USE LOQUELEAF FOR ALL OF THE PROBLEMS ON P.9 2

EVALUATE:

$$\begin{array}{c|c}
\hline
0 & \frac{2}{3} \\
\hline
8 \\
7
\end{array}$$

$$3 \frac{7}{8} \div \frac{4}{8}$$

Simplify:

(B)
$$2x + \frac{1}{3}(15x + 9)$$
 (G) $4(\frac{2}{3}x)$ (20) If $x = -2$
 $4 + 3|x| + |2|$

age Zofz