

Name \_\_\_\_\_

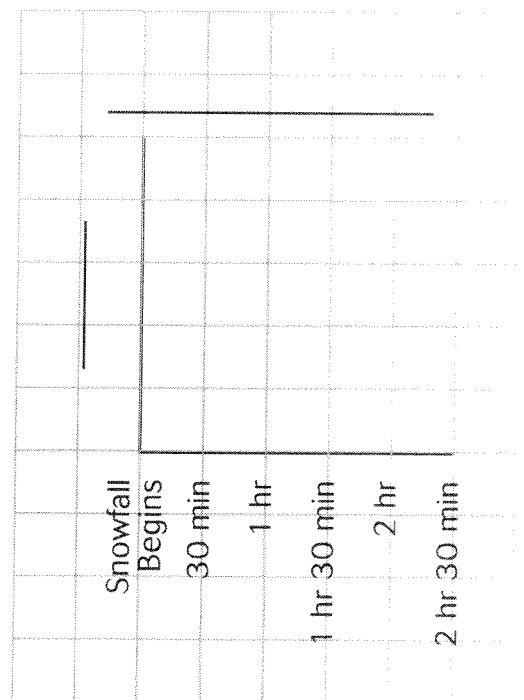
## Reading and Making Line Graphs

During a blizzard, a scientist measured the amount of snowfall every 30 minutes. The measurements are shown in the table. Make and use a line graph of the data by answering 1 to 6.

- Write a title above the graph.  
Label the axes: Time and Inches.
- Complete the scale. Since the data go up to 9, make the scale by 2.
- Plot a point for each time. When the snowfall began there were 0 inches on the ground, so put a point at 0 along the line above Snowfall Begins. For 30 min, put a dot halfway between the 0 and 2, because 1 is halfway between 0 and 2. Do this for each time.
- Draw a line from each point to the next.
- What was the total snowfall after it had snowed for 2 hours?  
\_\_\_\_\_
- Reasoning** How can you tell the total snowfall after it had snowed for 2 hours by only looking at the line graph?

**Snowfall Measurements**

Time	Inches
Snowfall Begins	0
30 min	1
1 h	2
1 h 30 min	4
2 h	7
2 h 30 min	9



In a line graph, when the line goes up from left to right, there is an **increase** in the data. When the line goes down, there is a **decrease**. The increase or decrease indicates the **trend**.

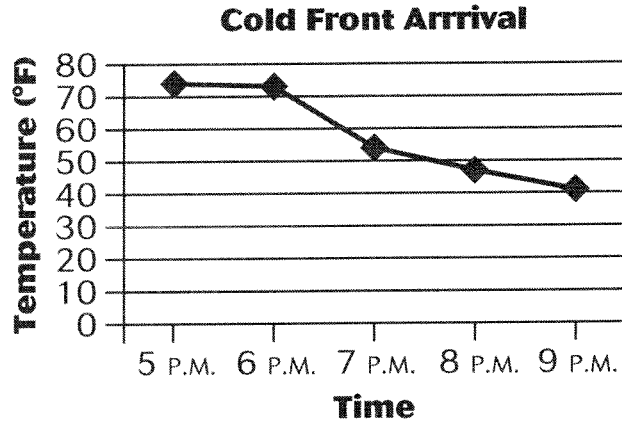
The trend in the snowfall graph is for the snowfall to increase over time.

Name \_\_\_\_\_

**Reading and Making Line Graphs** (continued)

Use the line graph to answer Exercises 7 to 10.

A cold front was expected to arrive sometime during the day.



7. What is the trend in the data?

\_\_\_\_\_

\_\_\_\_\_

8. About what time does it appear that the cold front arrived?

\_\_\_\_\_

9. Between what two times did the temperature decrease the most?

\_\_\_\_\_

10. About how many degrees did it decrease? \_\_\_\_\_

11. Make a line graph to display the data in the table.

Club Membership	
Year	Members
2002	10
2004	15
2006	25
2008	40



Use the line graph you made in Exercise 11 for Exercises 12 and 13.

12. What was the trend?

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13. **Reasoning** How can you tell if the number of members increased more between 2002 and 2004 or 2006 and 2008?