Name _____ Class _____ Date _____

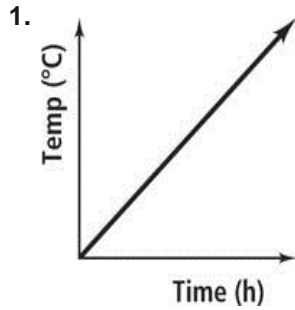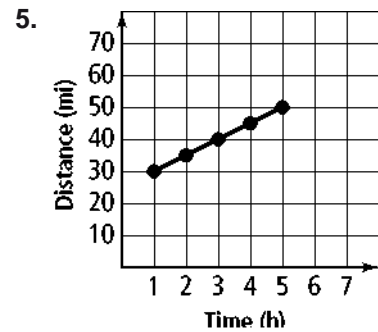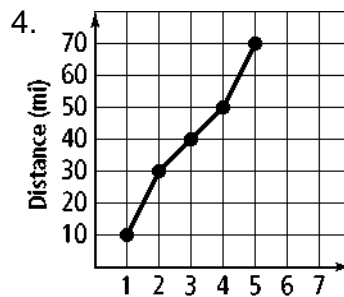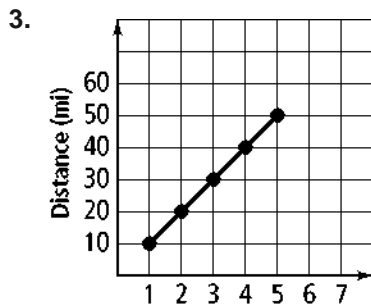## 4-1 Practice   *Form K*

Using Graphs to Relate Two Quantities

What are the variables in each graph? Describe how the variables are related at various points on the graph.

1.

2.
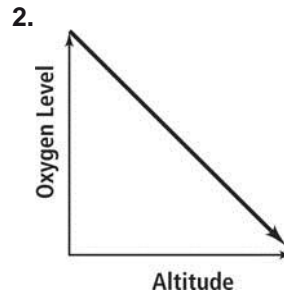
Match each graph with its related table.

3.

4.

5.

A.

Time (h)	Distance (mi)
1	10
2	20
3	30
4	40
5	50

B.

Time (h)	Distance (mi)
1	30
2	35
3	40
4	45
5	50

C.

Time (h)	Distance (mi)
1	10
2	30
3	40
4	50
5	70

4-1

Practice (continued)   *Form K*

Using Graphs to Relate Two Quantities

Sketch a graph to represent the situation.

6. During a trip, your speed increases during the first hour and decreases over the next 2 hours.

7. The average temperature steadily decreases over the course of the football season.

8. The average test score of the class increased throughout the semester until it decreased slightly on the last test.

9. Error Analysis During the first 2 weeks of training, Shelly ran 15 miles per week. Then, she increased to 20 miles per week. Describe and correct the error in sketching a graph to represent the relationship between the weeks and the total number of miles she has run.