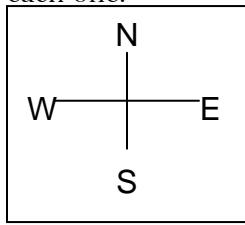
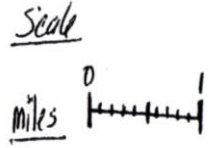


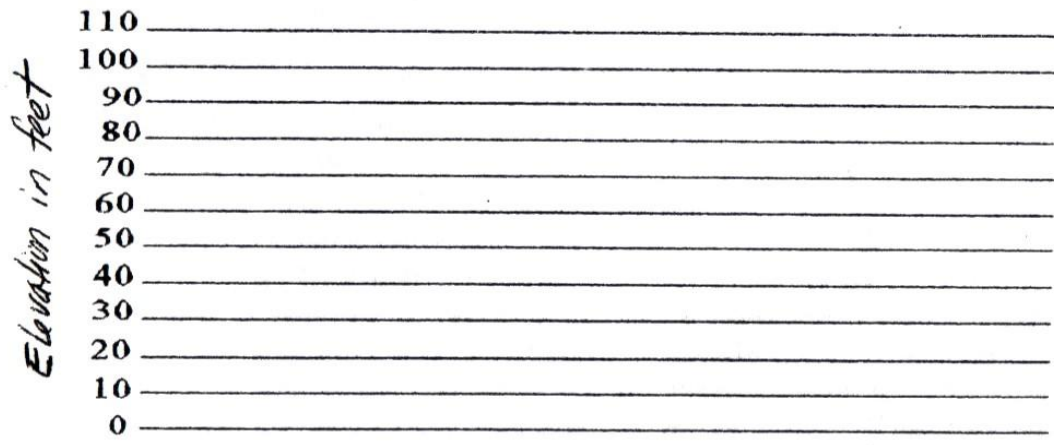
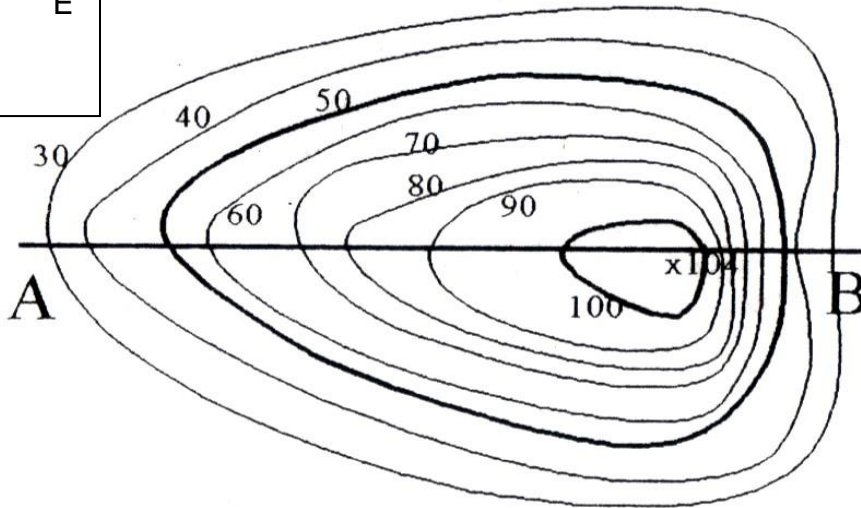
## Interpreting Topographic Maps

**Objective:** At the end of this activity students will be able to make a side profile of their topographic map and interpret the geologic features of their model.

**Directions:** You will draw a 2-D side view of Line A-B for each of the following topographic maps, then answer the questions that go with each one.

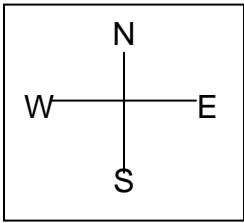


### Making a Profile I

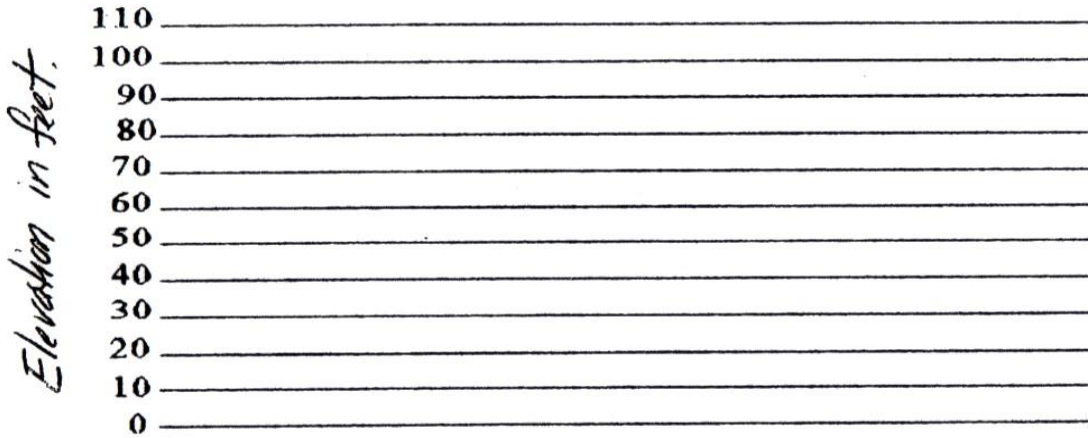
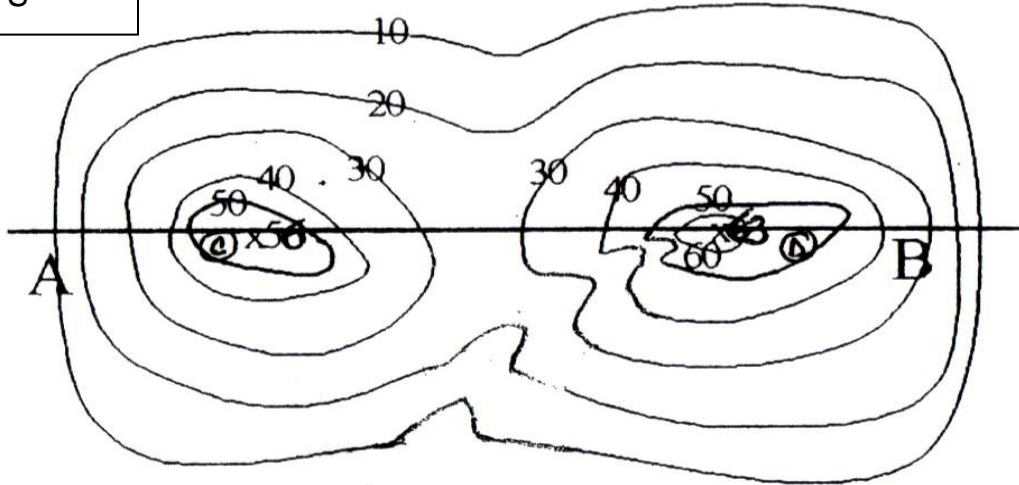


**Questions**

1. How many peaks does this map have? \_\_\_\_\_
2. What is the contour interval for this map? \_\_\_\_\_
3. Which side is steeper? How do you know? \_\_\_\_\_
4. Which side do you think would be better to build a house on? Why? \_\_\_\_\_



## Making a Profile II



### Questions

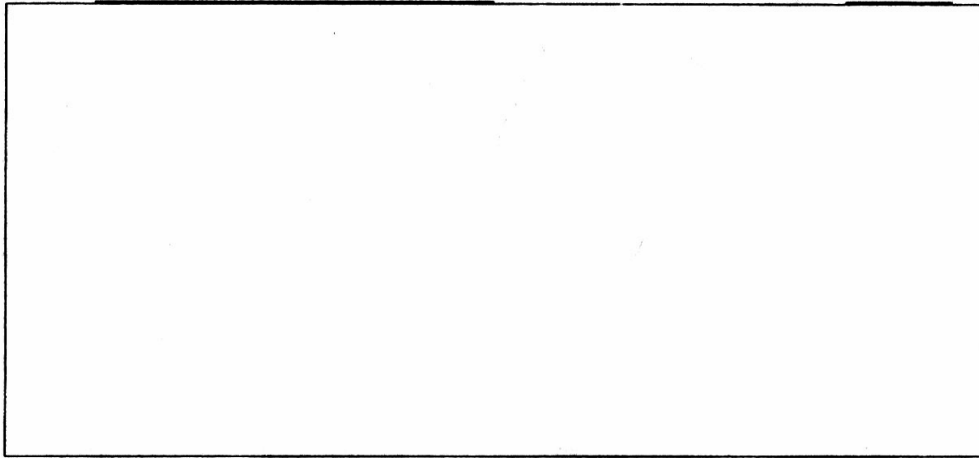
- Describe the topographical features of the area on the map. \_\_\_\_\_
- What is the elevation of Point C on the map? \_\_\_\_\_
- What do the "V" shaped indentations on the map indicate? \_\_\_\_\_
- What is the gradient from Point C to the lowest elevation to the west, and from Point D to the lowest elevation to the east? \_\_\_\_\_  
Which would be harder to climb, to Point C or to Point D? \_\_\_\_\_

### Directions

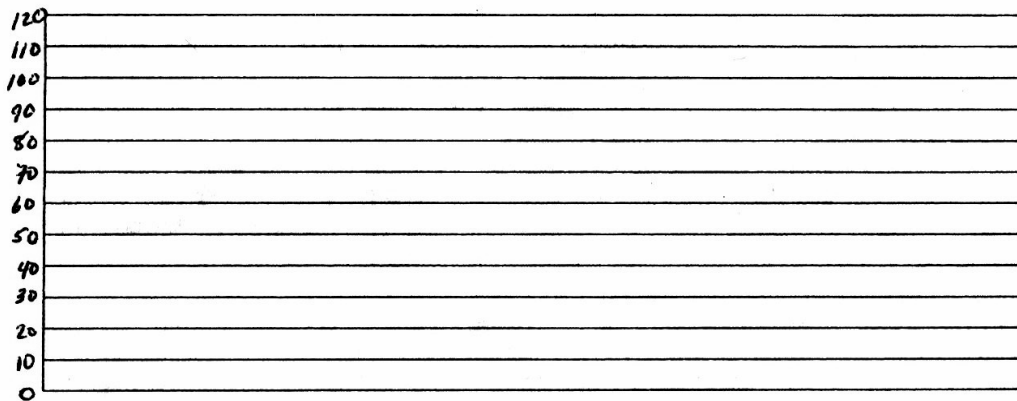
1. Make your own topographic map. It must fit into the area of the square below. The topographic map must include no more than 11 elevations. The beginning elevation will be 0 feet.
2. Then draw a side view of the map using the grid below the drawing. Draw a straight line through the map and make sure it goes through the highest point of their map from Side A to Side B.
3. Answer the questions.

Name: \_\_\_\_\_

Period: \_\_\_\_\_



*Elevation in feet*



### Questions

1. Which part of your map is the flattest? \_\_\_\_\_
2. What is the elevation of the highest point on your map? \_\_\_\_\_
3. What is the contour interval for your map? \_\_\_\_\_
4. Describe the topographical features of your map. \_\_\_\_\_  
\_\_\_\_\_
5. How many contour intervals did you have? \_\_\_\_\_
6. Which side is steeper? (North, South, East, West) \_\_\_\_\_
7. If you were a hiker going for an easy climb to the highest point (summit) on your map, from which direction would you most likely approach the summit? \_\_\_\_\_ Why?  
\_\_\_\_\_  
\_\_\_\_\_