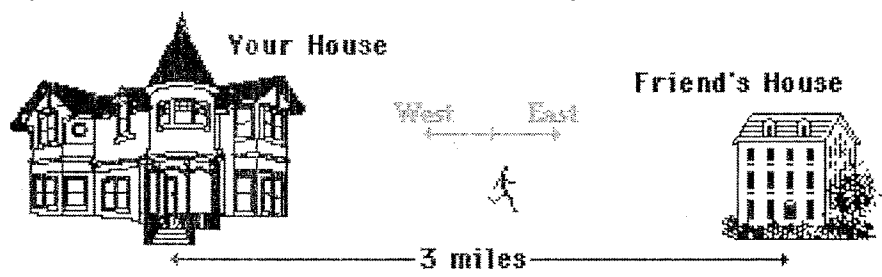


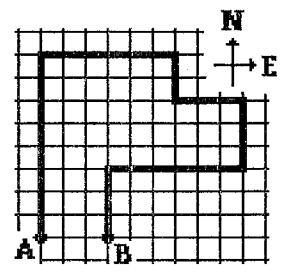
Name: _____

1 You run from your house to a friend's house that is 3 miles away. You then walk home.



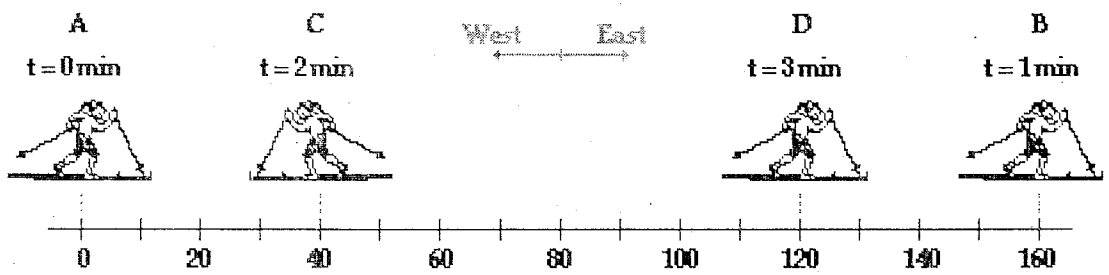
- a. What distance did you travel? _____
- b. What was the displacement for the entire trip? _____

Observe the diagram below. A person starts at A, walks along the bold path and finishes at B. Each square is 1 km along its edge. Use the diagram in answering the next two questions.



- 2 This person walks a distance of _____ km.
- 3 This person has a displacement of _____.
 - a. 0 km b. 3 km c. 3 km, E d. 3 km, W
 - e. 5 km f. 5 km, N g. 5 km, S h. 6 km
 - i. 6 km, E j. 6 km, W k. 31 km l. 31 km, E
 - m. 31 km, W n. None of these.

4 A cross-country skier moves from location A to location B to location C to location D. Each leg of the back-and-forth motion takes 1 minute to complete; the total time is 3 minutes. (The unit is meters.)



- a. What is the distance traveled by the skier during the three minutes of recreation?
- b. What is the net displacement of the skier during the three minutes of recreation?
- c. What is the displacement during the second minute (from 1 min. to 2 min.)?
- d. What is the displacement during the third minute (from 2 min. to 3 min.)?