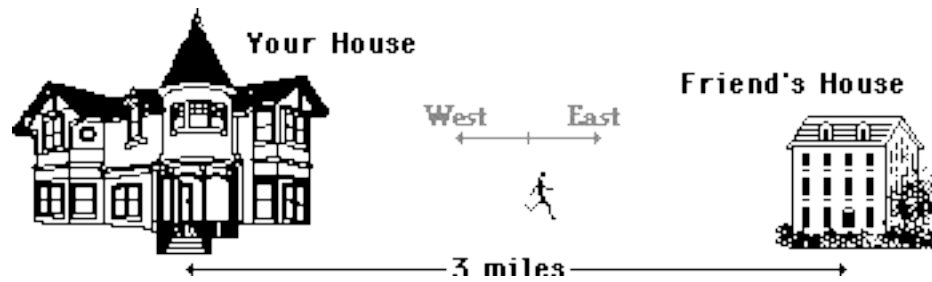


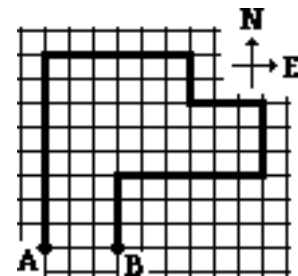
1-D Kinematics

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



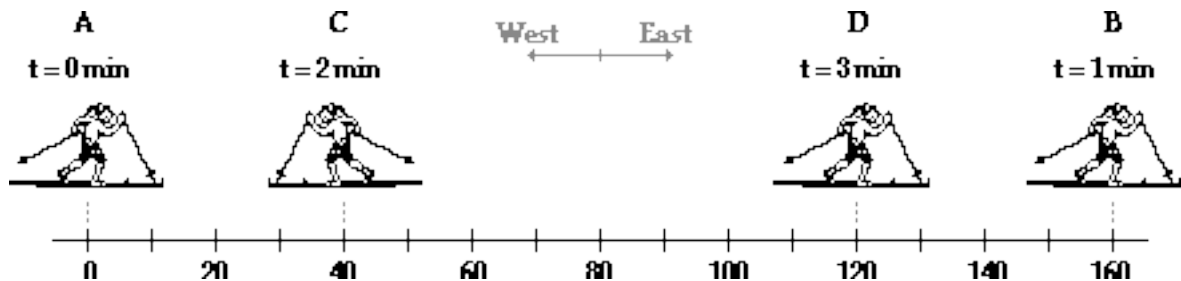
- What distance did you travel? _____
- What was the displacement for the entire trip? _____

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.



- This person walks a distance of _____ km.
- This person has a displacement of _____.
 - 0 km
 - 3 km
 - 3 km, E
 - 3 km, W
 - 5 km
 - 5 km, N
 - 5 km, S
 - 6 km
 - 6 km, E
 - 6 km, W
 - 31 km
 - 31 km, E
 - 31 km, W
 - None of these.

10. 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*.)



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