

Name \_\_\_\_\_

Science

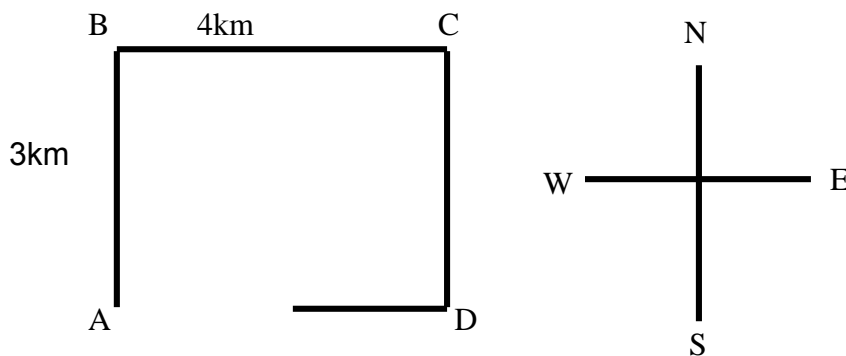
Class \_\_\_\_\_

Date \_\_\_\_\_

### Homework 3-6: Motion

1. Explain the difference between distance and displacement.

**Directions:** *In the figure below, you travel from home at A, to the park at B, to the store at C, to a friend's house at D. Study the map and answer questions 4 through 8.*



2. What distance did you travel?
3. When you were at your friend's house at D, what was your displacement?
4. If you leave home at 1:00 and get to your friend's house at 5:00, what was your average speed?
5. If you travel from your house at A to the park at B in 0.5 h, what is your velocity?
6. Explain why the speed in question 4 didn't equal your velocity in question 5.