

SECTION



Study Guide

What is motion?

Chapter

1

Directions: Fill in the chart using information from the chapter.

	Term	Definition	Includes Direction?
1.	distance		
2.	displacement		
3.	average speed		
4.	instantaneous speed		
5.	velocity		

Directions: List three ways the velocity of a car can change.

6. _____
7. _____
8. _____

Directions: Explain how the speed of an object is changing if the line representing the object's motion on a distance-time graph becomes steeper.

9. _____

Directions: Explain how the displacement of an object could be zero while the distance the object travels is 150 m.

10. _____

SECTION

1

Reinforcement

What is motion?

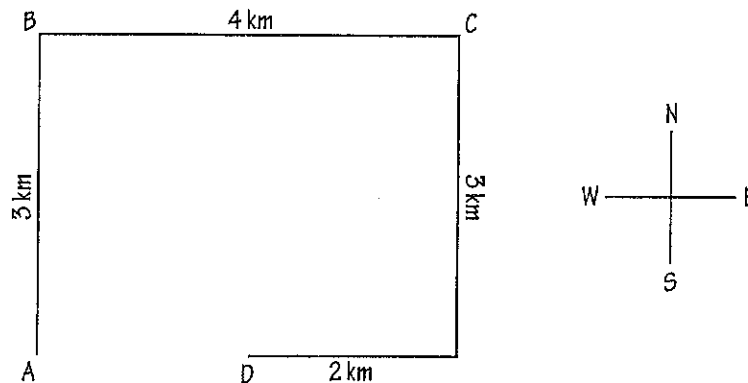
Directions: Answer the following questions on the lines provided.

- How do you define motion? _____

- When you are in bed asleep, are you in motion? Explain. _____

- 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.



- What distance did you travel? _____
- When you were at your friend's house at D, what was your displacement? _____
- If you leave home at 1:00 and get to your friend's house at 5:00, what was your average speed?

- If you travel from your house at A to the park at B in 0.5 h, what is your velocity?

- Explain why the speed in question 6 didn't equal your velocity in question 7.

Directions: Answer the following question on the line provided.

- What does a horizontal line mean on a speed-time graph?
