

Chapter 11 Motion

Section 11.2 Speed and Velocity

[pages 282–287]

What velocity does a car have if it travels 100 miles in 2 hours? Is it the same as the average velocity?

Reading Strategy: Read the

text carefully. Notice the difference between speed and velocity. Speed is a scalar quantity, while velocity is a vector quantity. Speed is the magnitude of velocity. Velocity is the speed and direction of motion. Speed is a scalar quantity, while velocity is a vector quantity.

Table 11.1 Speed and Velocity

Speed is a scalar quantity	Velocity is a vector quantity

Speed is a scalar quantity.

1. A car travels 100 miles in 2 hours. Is the average velocity the same as the average speed? Explain.
2. A car travels 100 miles in 2 hours. Is the average velocity the same as the average speed? Explain.
 - a. No, it is measured for velocity, not speed.
 - b. Yes, it is measured for velocity, not speed.
 - c. No, it is measured for speed, not velocity.
3. A car travels 100 miles in 2 hours. Is the average velocity the same as the average speed? Explain.
 - a. No, it is measured for velocity, not speed.
 - b. Yes, it is measured for velocity, not speed.
 - c. No, it is measured for speed, not velocity.
4. A car travels 100 miles in 2 hours. Is the average velocity the same as the average speed? Explain.
 - a. No, it is measured for velocity, not speed.
 - b. Yes, it is measured for velocity, not speed.
 - c. No, it is measured for speed, not velocity.

Study Guide Motion And Speed Answer Key

Mark Steyvers



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