

Average Speed Problems

Concepts

- A. What is meant by the term *instantaneous speed*? How about *instantaneous velocity*?
- B. Use the word *instantaneous* to explain what is meant by the terms constant speed and constant velocity.
- C. Define the phrase *average speed* - give a words definition and a math definition.
- D. If all you know is how far something traveled and how long it took, which of the following could you calculate?
____ average speed ____ constant speed ____ instantaneous speed
- E. If all you know is the average speed of something and the time it moved, which of the following can you calculate?
____ distance traveled ____ constant speed ____ instantaneous speed
- F. If all you know is the constant speed of something and the time it moved, which of the following can you calculate?
____ distance traveled ____ average speed ____ instantaneous speed

Problems

- Let's say you move from Point A to Point B with a constant speed of 15 m/s for 10 seconds.
 - How far did you travel?
 - Could you have sped up or slowed down at any point during the 10 seconds?
 - How fast were going at the 3 second mark? How about the 5 second mark?
 - What was your average speed for the entire 10 seconds?
- Now let's say you move from Point A to Point B with an average speed of 15 m/s for 10 seconds.
 - How far did you travel?
 - Could you have sped up or slowed down at any point during the 10 seconds?
 - How fast were going at the 3 second mark? How about the 5 second mark?

