

1.10 Velocity

Goal: Describe velocity and solve velocity problems.

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Velocity

1. Complete the practice and answer the following:

1. How is velocity different from speed?
2. Describe an object moving with constant velocity.
3. List three ways to change velocity.

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What is Velocity?

2. Define the Following Terms:

Distance:

Displacement:

Change in Velocity:

Instantaneous Velocity:

3. What are proper velocity units?

4. Complete the practice and check your work.

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Velocity Problems

5. While Yvonne and Melissa are attending the International Physics Students Conference in Montana, they decide to rent a car to see the sights. During one part of the trip, they drive 26 kilometers due east on a flat, level road for 30. minutes. Calculate the average velocity (in kilometers/hour) for this part of the trip.

6. Ginger is the star sprinter for the school's women's track team. In the last meet, she won the 100.0 meter dash by racing down the track and crossing the finish line with a time of 12.38 seconds. What was Ginger's average velocity for the dash?