

Describing Motion: Velocity

Chpt 3 rev R

Following the basic problem solving approach to solve the following problems: List all data including vector diagrams, list type motion, choose appropriate formula and list it, insert values into formula, and solve problem. All steps must be included to get full credit. Remember, acceleration due to gravity is -9.81 m/s^2

1. You calculate that a bullet travels 215 m in 0.750 s. a) What is the velocity of the bullet? b) How far would it go in 2.3 s?
2. a) How much time does it take an arrow traveling at 212 m/s to travel 70.0 m? b) What is its speed in km/hr?
3. Bad Billy runs at 16 km/hr for 15.3 seconds. A) How far does her run? B) What is his speed in m/s?

