

Kinematics Problems
Physics

Name: _____
1 2 3 4 5 6 7 8

1) A bus moves from 23 m/s to a stop in 3 seconds.
a) What was the acceleration of the bus?

b) How far did the bus travel until it stopped?

2) A bird traveling at 25 m/s undergoes a steady acceleration of 3.0 m/s/s. After 500m of acceleration, how fast will the bird be going?

3) A rifle has a 1 meter long barrel. If a bullet leaves the gun traveling at 550 m/s, what was the acceleration of the bullet?

4) A soccer player is jogging along at 3 m/s. If he begins to accelerate at a rate of -0.7 m/s^2 , how fast will he be going after 10 seconds?

5) A softball player slides to a stop on home plate. How far did the player slide if she started at 8 m/s, and slid for a total time of 1.4 seconds?