PROJECTILES

Name:		

1. A ball rolls off a table/cliff/falls out of a plane at a speed of 20.0 m/s from a height of 8.50 m. (a) How long before it hits the ground? (b) How fast does it hit in the vertical direction? (c) What is its total speed when it hits? (d) How far did it travel horizontally before it hit?

2. Joe/Fred/Penny/Abdul throws/launches/catapults/tosses a ball/rock/hedgehog/piano at an angle of 32.5° and an initial velocity of 25.8 m/s. (a) How long is it in the air? (b) How far up does it go before coming back down? (c) How fast is it going in the vertical direction when it hits? (d) What is its total speed when it hits? (e) How far from its starting point does it hit the ground?

