Horizontally launched Problems:

In her physics lab, Melanie rolls a marble down a ramp and off the table with a horizontal velocity of 1.2 m/s. The marble falls in a cup placed 0.51m from the table’s edge. How high is the table?

Billy-Joe stands on the Talahatchee Bridge kicking stones into the water below. A) If Billy-Joe kicks a stone with a horizontal velocity of 3.50 m/s, and it lands in the water a horizontal distance of 5.40m from where Billy-Joe is standing, what is the height of the bridge? B) If the stone had been kicked harder, how would this affect the time it would take to fall?

The movie *The Gods Must Be Crazy* begins with a pilot dropping a bottle out of an airplane. It is recovered by a surprised native below, who thinks it is a message from the gods. If the plane from which the bottle was dropped was flying at an altitude of 500m, and the bottle lands 400m horizontally from the initial dropping point, how fast was the plane flying when the bottle was released?