Inelastic collisions problems

1. A 5.2 g bullet fired at a velocity of 925 m/s hits and becomes imbedded in a block of wood with a mass of 2.5 kg that is sitting on top of a smooth table. What is the final velocity of the bullet and block?
2. If the same bullet were to strike a 1.75 kg block of wood what is the final velocity of the bullet and block?
3. A 5.00 g bullet fired horizontally collides with a block of wood with mass 1.000 kg that is sitting on a table. After the impact, the bullet and block move with a velocity of 0.98 m/s. What was the velocity of the bullet when it hit the block?
4. An 8.00 g bullet is fired horizontally into a 250 g block of wood sitting on table. The bullet and block are moving at 4.43 m/s after the collision. Determine the initial velocity of the bullet.