

Question: Between steel ball and wood ball, which arrive first to the ground?

I believe that the steel ball and the wood ball arrive simultaneously to the ground. I assume that the two balls are the same size and shape. Without air resistance, both balls would fall at the same increasing speed. With the air, the force of the air resistance, which is mostly dependent on the size and shape of the object, would be the same for both balls. Since the force is same, the deceleration would be greater for the ball that has less mass. Deceleration means slowing down, for example, a decrease of speed. Although the steel ball and the wood ball are made from two different types of materials, they arrive to the ground simultaneously. As a conclusion, I believe that the steel ball and the wood ball arrive simultaneously to the ground.