8 Collision V

A 3.5g bullet is fired from the left horizontally at two blocks 1 and 2 at rest on a frictionless table. The bullet passes through block 1 (m=1.2kg) and embeds itself in block2 (m=1.8kg). The blocks end up with respective speed v1=0.63m/s and v2=1.4m/s after impact with the bullet. Neglecting the material removed from block1 by the bullet, find the speed of the bullet as it a) leaves and b) enters block1.