

- 4 A moving object X approaches head-on a stationary object Y with velocity v , as shown.



The two objects collide elastically. After the collision, Y moves to the right with speed $0.67 v$.

What is the speed of X after the collision?

- A** 0 **B** $0.33 v$ **C** $0.67 v$ **D** v

- 5 A brick rests on the floor. The forces on the brick are its weight W and a support force S from the