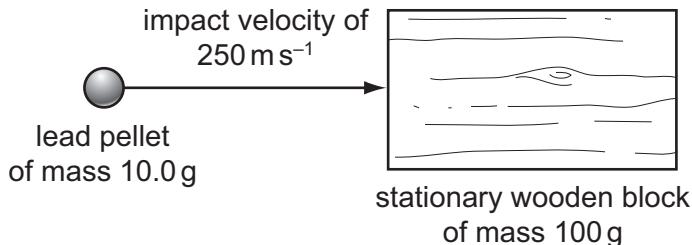


- 13 A lead pellet of mass 10.0 g is shot horizontally into a stationary wooden block of mass 100 g. The pellet hits the block with an impact velocity of 250 ms^{-1} . It embeds itself in the block and it does not emerge.



What will be the speed of the block immediately after the pellet is embedded?

- A 23 ms^{-1} B 25 ms^{-1} C 75 ms^{-1} D 79 ms^{-1}

Space for working