

- 10** Two equal masses travel towards each other on a frictionless track at speeds of  $60 \text{ cm s}^{-1}$  and  $30 \text{ cm s}^{-1}$ . They stick together on impact.



What is the speed of the masses after impact?

- A**  $15 \text{ cm s}^{-1}$       **B**  $20 \text{ cm s}^{-1}$       **C**  $30 \text{ cm s}^{-1}$       **D**  $45 \text{ cm s}^{-1}$