

- 5** A bowling ball undergoes head-on elastic collision with a stationary bowling pin. The bowling ball's mass is 5 times that of the pin. Given that the pin's speed immediately after the collision is 3.33 m s^{-1} , what is the speed of the bowling ball just before the collision?

A 1.33 m s^{-1}

B 2.00 m s^{-1}

C 3.33 m s^{-1}

D 4.00 m s^{-1}