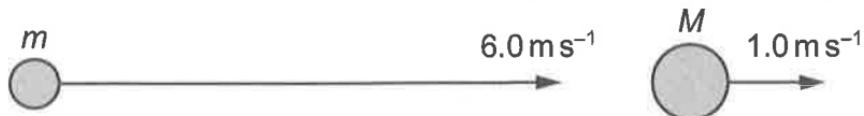


- 16 A ball of mass m , travelling at 6.0 ms^{-1} , collides elastically with a ball of mass M travelling at 1.0 ms^{-1} . Mass m is smaller than mass M .



Which diagram represents the velocities of the two balls after the collision?

- A
Ball m has a velocity of 1.0 ms^{-1} to the right. Ball M has a velocity of 6.0 ms^{-1} to the right.
- B
Ball m has a velocity of 1.5 ms^{-1} to the right. Ball M has a velocity of 1.5 ms^{-1} to the right.
- C
Ball m has a velocity of 3.0 ms^{-1} to the left. Ball M has a velocity of 2.0 ms^{-1} to the right.
- D
Ball m has a velocity of 4.0 ms^{-1} to the left. Ball M has a velocity of 3.0 ms^{-1} to the right.

- 17 The force applied to a wire is increased from zero and then decreased to zero. The variation of