

- 2** Ball A is projected horizontally at  $2.0 \text{ m s}^{-1}$  from the top of a vertical cliff while Ball B is released from rest  $1.0 \text{ s}$  later from the same point. It took Ball B  $3.5 \text{ s}$  to reach the base of the cliff.

How far from the base of the cliff will Ball A hit the ground?

**A**  $7.0 \text{ m}$

**B**  $9.0 \text{ m}$

**C**  $53 \text{ m}$

**D**  $67 \text{ m}$