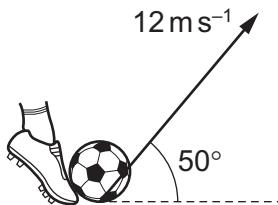


- 6** A ball is kicked so that it has an initial velocity of  $12 \text{ m s}^{-1}$  at an angle of  $50^\circ$  to horizontal ground.

Assume that air resistance is negligible.



What is the maximum height above the ground that is reached by the ball?

- A**  $0.47 \text{ m}$       **B**  $3.0 \text{ m}$       **C**  $4.3 \text{ m}$       **D**  $7.3 \text{ m}$