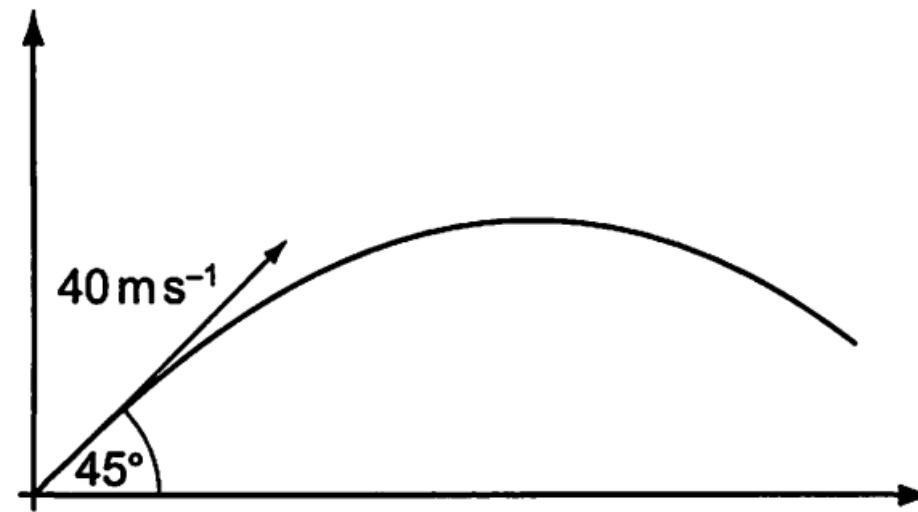


- 5 An object is projected with velocity 40 ms^{-1} at an angle of 45° to the horizontal. Air resistance is negligible.



What is the speed of the object after 5.0 s?

A 21 ms^{-1}

B 28 ms^{-1}

C 35 ms^{-1}

D 49 ms^{-1}