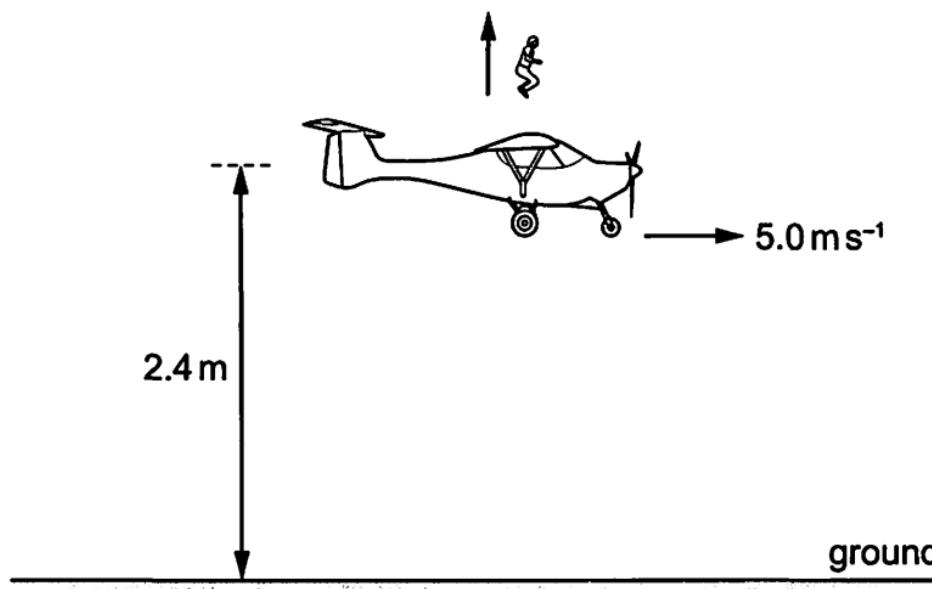


- 4 A toy aeroplane is flying above the ground at a constant horizontal velocity of 5.0 m s^{-1} when the toy pilot is ejected. The aeroplane propels the toy pilot upward from a height of 2.4 m above the ground so that the vertical component of his speed is initially 3.0 m s^{-1} .



With what speed does the toy pilot hit the ground? Ignore the effects of air resistance.

- A 3.7 m s^{-1} B 5.8 m s^{-1} C 7.5 m s^{-1} D 9.0 m s^{-1}