6 A bullet is fired horizontally with speed v from a rifle. For a short time t after leaving the rifle, the only force affecting its motion is gravity. The acceleration of free fall is g.

Which expression gives the value of $\dfrac{\text{the horizontal distance travelled in time } t}{\text{the vertical distance travelled in time } t}$?

A $\dfrac{vt}{g}$ **B** $\dfrac{v}{gt}$ **C** $\dfrac{2vt}{g}$ **D** $\dfrac{2v}{gt}$

Space for working