8 A mass is placed on a frictionless slope inclined at 30° to the horizontal. The mass is then released.

What is its acceleration down the slope?

A $4.9\,\text{ms}^{-2}$ **B** $5.7\,\text{ms}^{-2}$ **C** $8.5\,\text{ms}^{-2}$ **D** $9.8\,\text{ms}^{-2}$