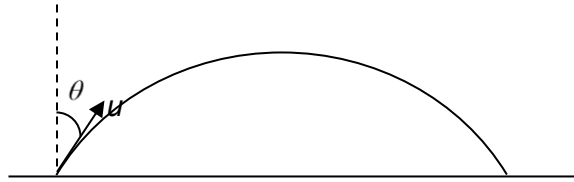**10** The diagram shows a projectile being launched at an angle θ to the vertical.

Ignoring air resistance, what fraction of its initial kinetic energy does the projectile have at the top of its trajectory?

A zero   **B** $\cos\theta$ **C** $\cos^2\theta$ **D** $\sin^2\theta$