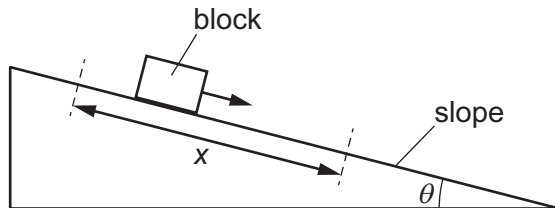**17** A block is released from rest and slides a distance x down a straight slope.

The slope is at an angle θ to the horizontal.

The slope is frictionless and air resistance is negligible.

The acceleration of free fall is g.

Which expression gives the final speed of the block?

A $\sqrt{\dfrac{gx \sin \theta}{2}}$ **B** $\sqrt{2gx \sin \theta}$ **C** $\sqrt{2gx}$ **D** $2gx \sin \theta$