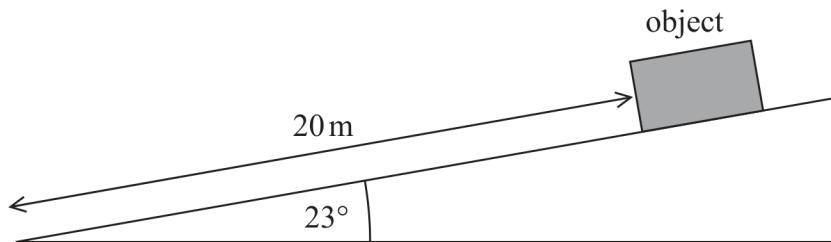8   An object accelerates from rest down a frictionless slope. The object moves a distance
    of 20 m. The slope is at an angle of 23° to the horizontal, as shown.

Which of the following gives the final speed of the object in $m s^{-1}$?

☒   **A** $\sqrt{2 \times 9.81 \times 20 \times \cos 23°}$

☒   **B** $\sqrt{0.5 \times 9.81 \times 20 \times \cos 23°}$

☒   **C** $\sqrt{2 \times 9.81 \times 20 \times \sin 23°}$

☒   **D** $\sqrt{0.5 \times 9.81 \times 20 \times \sin 23°}$

(Total for Question 8 = 1 mark)