4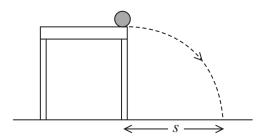 A ball rolls off a table with a horizontal velocity of $1.2\,\mathrm{m\,s^{-1}}$. The ball takes $0.9\,\mathrm{s}$ to reach the ground and lands a distance s from the table as shown.

Which of the following expressions could be used to determine the value of s in metres?

☒ **A** $\dfrac{1.2^2}{2 \times 9.81}$

☒ **B** 1.2×0.9

☒ **C** $\tfrac{1}{2} \times 9.81 \times 0.9^2$

☒ **D** $(1.2 \times 0.9) + (\tfrac{1}{2} \times 9.81 \times 0.9^2)$

(Total for Question 4 = 1 mark)