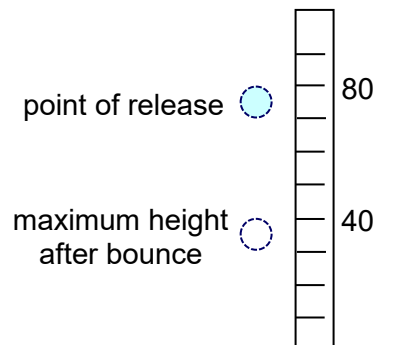


- 9** A rubber ball has a diameter of 10 cm. It is released from rest with the top of the ball 80 cm above a horizontal surface. It falls vertically and then bounces back up so that the maximum height reached by the top of the ball is 40 cm, as shown in the diagram below.



If the kinetic energy of the ball is 0.80 J just before it strikes the surface, what is the kinetic energy just after it leaves the surface?

- A** 0.34 J      **B** 0.37 J      **C** 0.40 J      **D** 0.46 J