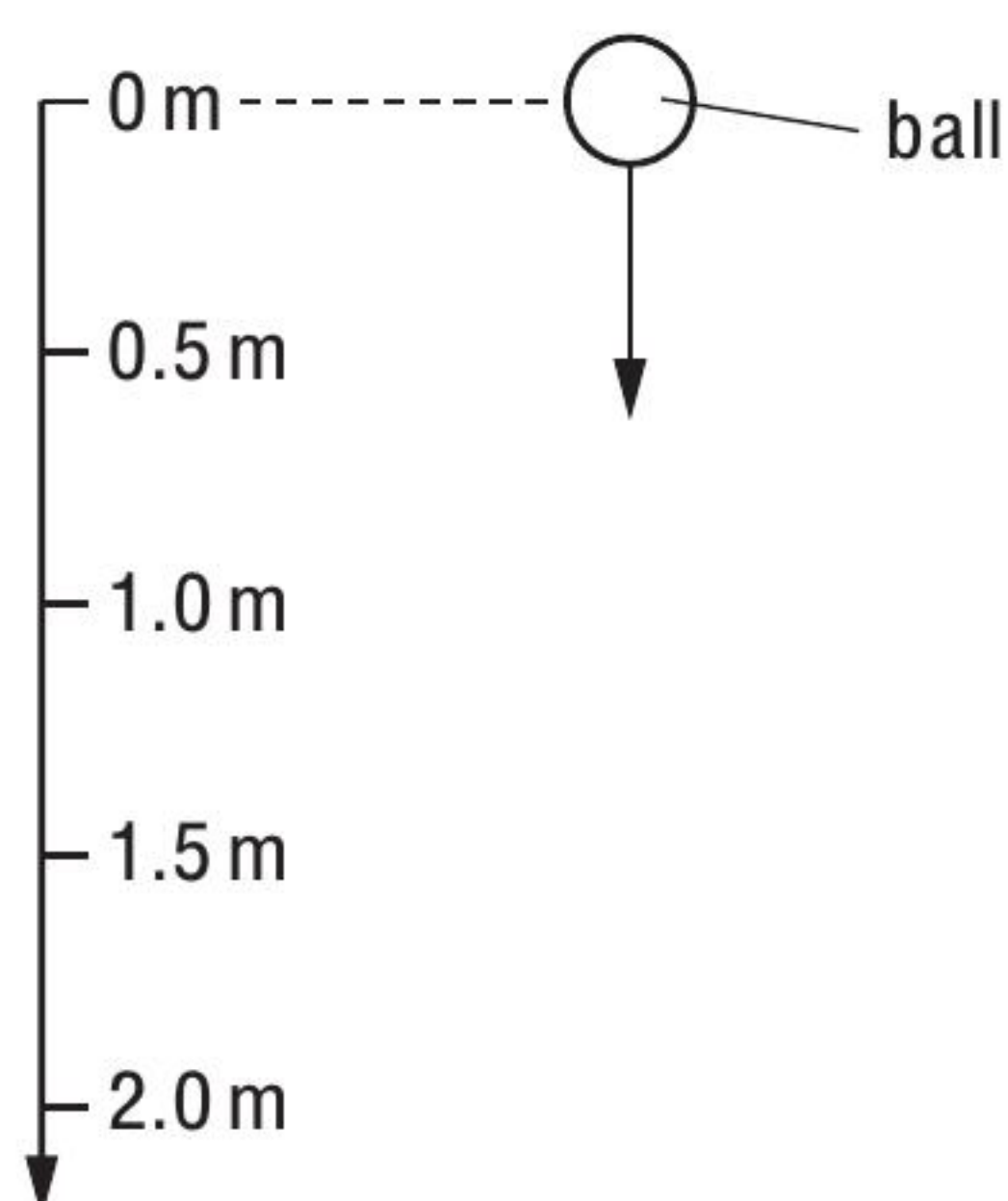


21. What is the most accurate and precise method to measure the thickness of a coin?

- A** Use a micrometer screw gauge.
- B** Use a ruler and look at the scale perpendicularly.
- C** Use a top pan balance.
- D** Use the displacement method with water in a measuring cylinder.

22. On Earth, a ball is dropped and falls 2.0 m in a vacuum.

The acceleration of the ball at 1.0 m is 10 m/s^2 .



What is the acceleration of the ball at 0.5 m?

- A** 5.0 m/s^2 **B** 10 m/s^2 **C** 15 m/s^2 **D** 20 m/s^2

23. A skydiver reaches terminal velocity. Then he opens his parachute.

What happens to the skydiver as the parachute opens?

- A** There is a decrease in weight.
- B** There is acceleration upwards.
- C** There is an increase in speed.
- D** There is movement upwards.