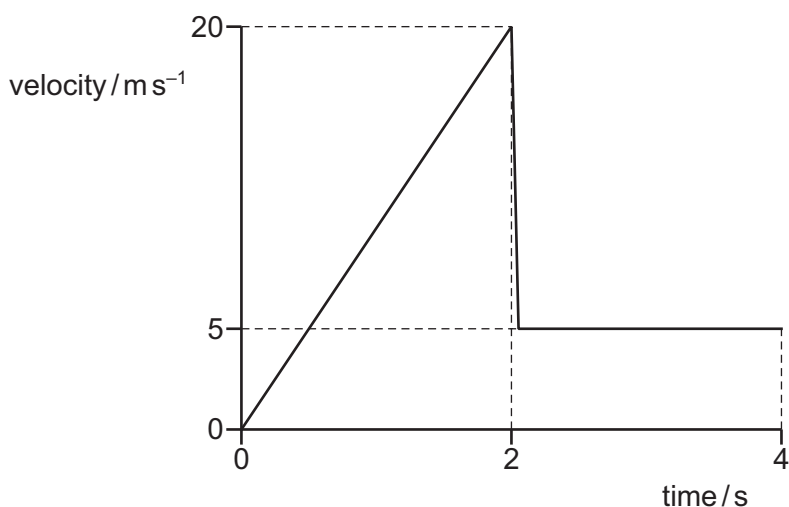


- 8 A stone is dropped from a height of 20 m above water. The graph shows the variation with time of the velocity of the stone.



Which statement describes the approximate position of the stone four seconds after it is dropped?

- A It is at a distance of 10 m above the surface of the water.
 - B It is at a distance of 10 m below the surface of the water.
 - C It is at a distance of 20 m below the surface of the water.
 - D It is at a distance of 30 m below the surface of the water.
- 9 The water surface in a deep well is 78.0 m below the top of the well. A person at the top of the well drops a heavy stone down the well.

Air resistance is negligible. The speed of sound in the air is 330 m s⁻¹.

What is the time interval between the person dropping the stone and hearing it hitting the water?

- A 3.75 s B 3.99 s C 4.19 s D 4.22 s