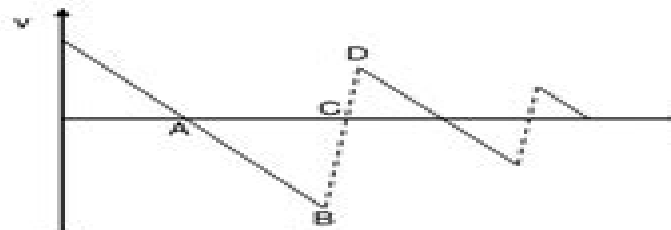


- 1.3 Two identical small metal balls are at the same height above the ground. Ball A is dropped. Ball B is thrown downwards. Which statement is true?
- A Ball B will take less time to reach the ground than ball A.
 - B Ball B will hit the ground with a smaller velocity than ball A.
 - C While they are in the air, the acceleration of ball B will be greater than the acceleration of ball A.
 - D While they are in the air, the acceleration of ball A will be greater than the acceleration of ball B.
- 1.4 An object is initially thrown upwards. It hits the ground for the first time at the moment marked



- 1.5 A small toy is attached to a balloon filled with helium. The balloon applies an upward force on the toy, but the toy remains resting on the ground.



Which statement is true about the forces acting on the toy?

.....

- 1.6 Four collisions are shown in the table below. The two blocks colliding each have a mass of 2 kg. Which collision is possible and is perfectly elastic?

	before collision		after collision
A	$3 \text{ m}\cdot\text{s}^{-1}$	$3 \text{ m}\cdot\text{s}^{-1}$	$0 \text{ m}\cdot\text{s}^{-1}$

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