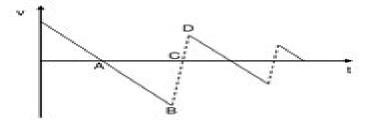
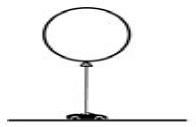
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- 1.3 Two identical small metal balls are at the same height above the ground. Ball A is dropped. Ball B is thrown downwards. Which statement is true?
 - A Ball B will take less time to reach the ground than ball A.
 - B Ball B will hit the ground 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?

A CONTRACTOR OF THE PROPERTY O

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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 m·s·1 3 m·s·1	0 m·s·1	

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The Software Encyclopedia 2000 Bowker Editorial Staff,2000-05 Models of Massive Parallelism Max Garzon,2012-12-06 Locality is a fundamental restriction in nature On the other hand adaptive complex systems life in particular exhibit a sense of permanence and time lessness amidst relentless constant changes in surrounding environments that make the global properties of the physical world the most important problems in understanding their nature and structure Thus much of the differential and integral Calculus deals with the problem of passing from local information as expressed for example by a differential equation or the contour of a region to global features of a system s behavior an equation of growth or an area Fundamental laws in the exact sciences seek to express the observable global behavior of physical objects through equations about local interaction of their components on the assumption that the continuum is the most accurate model of physical reality Paradoxically much of modern physics calls for a fundamen tal discrete component in our understanding of the physical world Useful computational models must be eventually constructed in hardware and as such can only be based on local interaction of simple processing elements

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