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Page 3 of 31

- 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?

and the second s

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Page 4 of 31

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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**Daniel F McAuley** 

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- 1. Understanding the eBook Grade 1ieb Exam Physical Science Paper
  - The Rise of Digital Reading Grade 1ieb Exam Physical Science Paper
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade 1ieb Exam Physical Science Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Grade 1ieb Exam Physical Science Paper
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade 1ieb Exam Physical Science Paper
  - Personalized Recommendations
  - Grade 1ieb Exam Physical Science Paper User Reviews and Ratings
  - Grade 1ieb Exam Physical Science Paper and Bestseller Lists
- 5. Accessing Grade 1ieb Exam Physical Science Paper Free and Paid eBooks
  - Grade 1ieb Exam Physical Science Paper Public Domain eBooks
  - Grade 1ieb Exam Physical Science Paper eBook Subscription Services
  - Grade 1ieb Exam Physical Science Paper Budget-Friendly Options
- 6. Navigating Grade 1ieb Exam Physical Science Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade 1ieb Exam Physical Science Paper Compatibility with Devices
  - Grade 1ieb Exam Physical Science Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade 1ieb Exam Physical Science Paper
  - Highlighting and Note-Taking Grade 1ieb Exam Physical Science Paper
  - Interactive Elements Grade 1ieb Exam Physical Science Paper

- 8. Staying Engaged with Grade 1ieb Exam Physical Science Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 1ieb Exam Physical Science Paper
- 9. Balancing eBooks and Physical Books Grade 1ieb Exam Physical Science Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 1ieb Exam Physical Science Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 1ieb Exam Physical Science Paper
  - Setting Reading Goals Grade 1ieb Exam Physical Science Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 1ieb Exam Physical Science Paper
  - Fact-Checking eBook Content of Grade 1ieb Exam Physical Science Paper
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
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