

QUESTION 4 (Start on a new page.)

Two boys, each of mass m , are standing at the back of a trolley of mass $4m$. The trolley is at rest on a frictionless horizontal surface.

The boys jump off simultaneously at one end of the trolley with a horizontal velocity of 2 m s^{-1} . The trolley moves in the opposite direction.

4.1 Write down the principle of conservation of linear momentum in words. (2)

4.2 Calculate the final velocity of the trolley. (3)

4.3 The two boys jump off the trolley one at a time. How will the velocity of the trolley compare to that calculated in QUESTION 4.2? Write down only GREATER THAN, SMALLER THAN or EQUAL TO. (1)

(8)

QUESTION 5 (Start on a new page.)

A 2 kg trolley is at rest on a horizontal frictionless surface. A constant horizontal force of 10 N is applied to the trolley over a distance of 2.5 m .



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VID 1 OF 16: MOMENTUM

$$1. \quad \Sigma p_i = \Sigma p_f$$

Question 4 (Physical Sciences 2 XAMPLAR 2014)

Data:

$$M_1 = m$$

$$M_2 = m$$

$$M_{trolley} = 4m$$

$$M_{trolley} = 4m$$

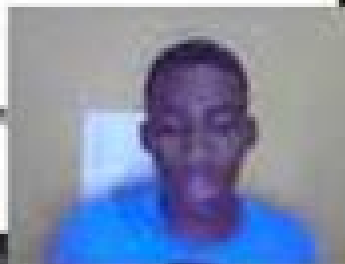
$$V_{trolley} = 0 \text{ m/s}$$

$$V_{trolley} = 2 \text{ m/s}$$

4.1 Principle of conservation of momentum

4.2

4.3



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A Course in Rasch Measurement Theory David Andrich, Ida Marais, 2019-07-15 This book applies Rasch measurement theory to the fields of education psychology sociology marketing and health outcomes in order to measure various social constructs The chief focus is on first principles of both the theory and its applications Because software is readily available to carry out analyses of real data numerous small examples are provided in the book The software used in these examples and which is helpful in working through the text is RUMM2030 Rasch unidimensional models for measurement The book's main goals are to equip researchers with the confidence they need in order to be in control of the analysis and interpretation of data and to make professional rather than primarily statistical decisions mechanically Because statistical principles are necessarily involved reviews of the requisite statistics are provided in the Appendix The content is based on courses that have been taught both online and in intensive form for over two decades Although first principles are emphasised much of the book is based on research conducted by the two authors and their colleagues Handbook of Research on Learning and Instruction Richard E. Mayer, Patricia A. Alexander, 2016-10-04 During the past 30 years researchers have made exciting progress in the science of learning i.e. how people learn and the science of instruction i.e. how to help people learn This second edition of the Handbook of Research on Learning and Instruction is intended to provide an overview of these research advances With chapters written by leading researchers from around the world this volume examines learning and instruction in a variety of learning environments including in classrooms and out of classrooms and with a variety of learners including K 16 students and adult learners Contributors to this volume demonstrate how and why educational practice should be guided by research evidence concerning what works in instruction The Handbook is written at a level that is appropriate for graduate students researchers and practitioners interested in an evidence based approach to learning and instruction The book is divided into two sections learning and instruction The learning section consists of chapters on how people learn in reading writing mathematics science history second language and physical education as well as how people acquire the knowledge and processes required for critical thinking studying self regulation and motivation The instruction section consists of chapters on effective instructional methods feedback examples questioning tutoring visualizations simulations inquiry discussion collaboration peer modeling and adaptive instruction Each chapter in this second edition of the Handbook has been thoroughly revised to integrate recent advances in the field of educational psychology Two chapters have been added to reflect advances in both helping students develop learning strategies and using technology to individualize instruction As with the first edition this updated volume showcases the best research being done on learning and instruction by traversing a broad array of academic domains learning constructs and instructional methods How to Enhance Learning Efficiency When Online Learning is Popular and Indispensable: Theory, Research and Practice Rong Lian, Chang Liu, Juzhe Xi, 2024-07-17 Online learning has become more and more common globally whether for comfort adapting to work

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1. Understanding the eBook Exemplar 2014 For Physics For Grade 1
 - The Rise of Digital Reading Exemplar 2014 For Physics For Grade 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Exemplar 2014 For Physics For Grade 1
 - 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 Exemplar 2014 For Physics For Grade 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exemplar 2014 For Physics For Grade 1
 - Personalized Recommendations

- Exemplar 2014 For Physics For Grade 1 User Reviews and Ratings
- Exemplar 2014 For Physics For Grade 1 and Bestseller Lists
- 5. Accessing Exemplar 2014 For Physics For Grade 1 Free and Paid eBooks
 - Exemplar 2014 For Physics For Grade 1 Public Domain eBooks
 - Exemplar 2014 For Physics For Grade 1 eBook Subscription Services
 - Exemplar 2014 For Physics For Grade 1 Budget-Friendly Options
- 6. Navigating Exemplar 2014 For Physics For Grade 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Exemplar 2014 For Physics For Grade 1 Compatibility with Devices
 - Exemplar 2014 For Physics For Grade 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exemplar 2014 For Physics For Grade 1
 - Highlighting and Note-Taking Exemplar 2014 For Physics For Grade 1
 - Interactive Elements Exemplar 2014 For Physics For Grade 1
- 8. Staying Engaged with Exemplar 2014 For Physics For Grade 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exemplar 2014 For Physics For Grade 1
- 9. Balancing eBooks and Physical Books Exemplar 2014 For Physics For Grade 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exemplar 2014 For Physics For Grade 1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Exemplar 2014 For Physics For Grade 1
 - Setting Reading Goals Exemplar 2014 For Physics For Grade 1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Exemplar 2014 For Physics For Grade 1
 - Fact-Checking eBook Content of Exemplar 2014 For Physics For Grade 1

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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