

- 1 a Define work done by a force.

.....

(1 mark)

- b Figure 1a shows a ball of mass 200 g on a smooth curved ramp. The ramp rests on a rough horizontal floor. The ball is at rest at a height of 0.65 m above the floor.

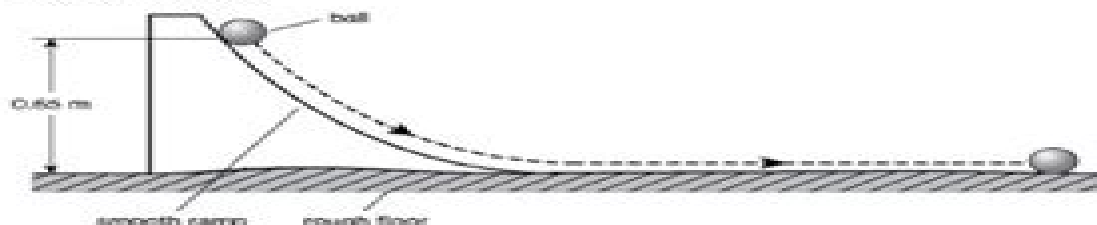


Figure 1a

The ball is released and rolls down the ramp onto the floor before coming to a halt.

- i Determine the horizontal distance travelled along the floor, assuming that the average frictional force acting between the ball and the floor is 0.72 N.

distance = m (2 marks)

- ii Describe the energy changes that take place during the motion of the ball.

.....

.....

(2 marks)

- c A trolley of mass 80 kg is being pulled by along a horizontal path. Figure 1b shows the force, T , exerted on the trolley and the frictional force, F , acting between the trolley and the path.



Figure 1b

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 - The Rise of Digital Reading Physics Exams Depies
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Exams Depies
 - 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 Physics Exams Depies
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Exams Depies
 - Personalized Recommendations
 - Physics Exams Depies User Reviews and Ratings
 - Physics Exams Depies and Bestseller Lists
5. Accessing Physics Exams Depies Free and Paid eBooks
 - Physics Exams Depies Public Domain eBooks
 - Physics Exams Depies eBook Subscription Services
 - Physics Exams Depies Budget-Friendly Options

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 - Physics Exams Depies Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Exams Depies
 - Highlighting and Note-Taking Physics Exams Depies
 - Interactive Elements Physics Exams Depies
8. Staying Engaged with Physics Exams Depies
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Exams Depies
9. Balancing eBooks and Physical Books Physics Exams Depies
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Exams Depies
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics Exams Depies
 - Setting Reading Goals Physics Exams Depies
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Exams Depies
 - Fact-Checking eBook Content of Physics Exams Depies
 - 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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