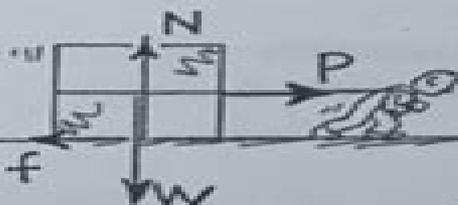
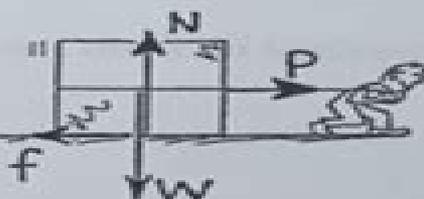
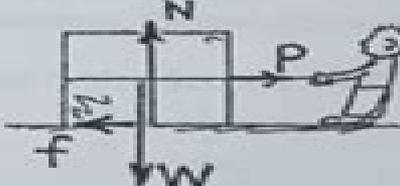
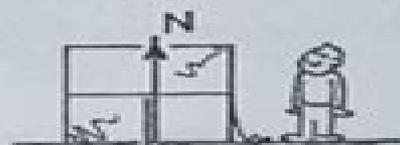


CONCEPTUAL *Physics* PRACTICE PAGE

Chapter 4 Newton's Second Law of Motion

Friction



1. A crate filled with delicious junk food rests on a horizontal floor. Only gravity and the support force of the floor act on it, as shown by the vectors for weight W and normal force N .

- The net force on the crate is [zero] [greater than zero].
- Evidence for this is _____

2. A slight pull P is exerted on the crate, not enough to move it. A force of friction f now acts.

- which is [less than] [equal to] [greater than] P .
- Net force on the crate is [zero] [greater than zero].

3. Pull P is increased until the crate begins to move. It is pulled so that it moves with constant velocity across the floor.

- Friction f is [less than] [equal to] [greater than] P .
- Constant velocity means acceleration is [zero] [more than zero].
- Net force on the crate is [less than] [equal to] [more than] zero.

4. Pull P is further increased and is now greater than friction f .

- Net force on the crate is [less than] [equal to] [greater than] zero.
- The net force acts toward the right, so acceleration acts toward the [left] [right].

5. If the pulling force P is 150 N and the crate doesn't move, what is the magnitude of f ? _____

6. If the pulling force P is 200 N and the crate doesn't move, what is the magnitude of f ? _____

7. If the force of sliding friction is 250 N, what force is necessary to keep the crate sliding at constant velocity? _____

8. If the mass of the crate is 50 kg and sliding friction is 250 N, what is the acceleration of the crate when the pulling force is 250 N? _____ 300 N? _____ 500 N? _____

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Table of Contents Conceptual Physics Chapter 4 Answers

1. Understanding the eBook Conceptual Physics Chapter 4 Answers
 - The Rise of Digital Reading Conceptual Physics Chapter 4 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physics Chapter 4 Answers
 - 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 Conceptual Physics Chapter 4 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physics Chapter 4 Answers
 - Personalized Recommendations
 - Conceptual Physics Chapter 4 Answers User Reviews and Ratings
 - Conceptual Physics Chapter 4 Answers and Bestseller Lists
5. Accessing Conceptual Physics Chapter 4 Answers Free and Paid eBooks
 - Conceptual Physics Chapter 4 Answers Public Domain eBooks
 - Conceptual Physics Chapter 4 Answers eBook Subscription Services
 - Conceptual Physics Chapter 4 Answers Budget-Friendly Options
6. Navigating Conceptual Physics Chapter 4 Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Conceptual Physics Chapter 4 Answers Compatibility with Devices
 - Conceptual Physics Chapter 4 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Conceptual Physics Chapter 4 Answers
 - Highlighting and Note-Taking Conceptual Physics Chapter 4 Answers
 - Interactive Elements Conceptual Physics Chapter 4 Answers
 8. Staying Engaged with Conceptual Physics Chapter 4 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Conceptual Physics Chapter 4 Answers
 9. Balancing eBooks and Physical Books Conceptual Physics Chapter 4 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Conceptual Physics Chapter 4 Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Conceptual Physics Chapter 4 Answers
 - Setting Reading Goals Conceptual Physics Chapter 4 Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Conceptual Physics Chapter 4 Answers
 - Fact-Checking eBook Content of Conceptual Physics Chapter 4 Answers
 - 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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