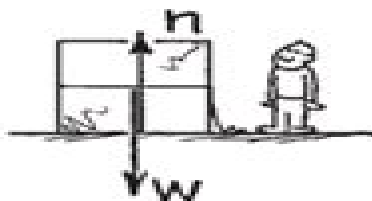


Concept-Development Practice Page **6-1**

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 .
 - a. The net force on the crate is **(zero)** (greater than zero).
 - b. Evidence for this is **no acceleration**.



2. A slight pull P is exerted on the crate, not enough to move it.
 - a. The force of friction f acting on the crate is (less than) **(equal to)** (greater than) P .
 - b. The 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.
 - a. Friction f is (less than) **(equal to)** (greater than) P .
 - b. Constant velocity means acceleration is **(zero)** (greater than zero).
 - c. The net force on the crate is (less than) **(equal to)** (greater than) zero.



4. Pull P is further increased and is now greater than friction f .
 - a. The net force on the crate is (less than) (equal to) **(greater than)** zero.
 - b. 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 ? 150 N
6. If the pulling force P is 200 N and the crate doesn't move, what is the magnitude of f ? 200 N
7. If the force of sliding friction is 250 N, what force is necessary to keep the crate sliding at constant velocity? 250 N
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? 0 m/s² 300 N? 1 m/s² 500 N? 5 m/s²

CONCEPTUAL PHYSICS

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Table of Contents Conceptual Physics Chapter 22 Answers

1. Understanding the eBook Conceptual Physics Chapter 22 Answers
 - The Rise of Digital Reading Conceptual Physics Chapter 22 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physics Chapter 22 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 eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physics Chapter 22 Answers
 - Personalized Recommendations
 - Conceptual Physics Chapter 22 Answers User Reviews and Ratings
 - Conceptual Physics Chapter 22 Answers and Bestseller Lists
5. Accessing Conceptual Physics Chapter 22 Answers Free and Paid eBooks
 - Conceptual Physics Chapter 22 Answers Public Domain eBooks
 - Conceptual Physics Chapter 22 Answers eBook Subscription Services
 - Conceptual Physics Chapter 22 Answers Budget-Friendly Options

6. Navigating Conceptual Physics Chapter 22 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Conceptual Physics Chapter 22 Answers Compatibility with Devices
 - Conceptual Physics Chapter 22 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Conceptual Physics Chapter 22 Answers
 - Highlighting and Note-Taking Conceptual Physics Chapter 22 Answers
 - Interactive Elements Conceptual Physics Chapter 22 Answers
8. Staying Engaged with Conceptual Physics Chapter 22 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Conceptual Physics Chapter 22 Answers
9. Balancing eBooks and Physical Books Conceptual Physics Chapter 22 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Conceptual Physics Chapter 22 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Conceptual Physics Chapter 22 Answers
 - Setting Reading Goals Conceptual Physics Chapter 22 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Conceptual Physics Chapter 22 Answers
 - Fact-Checking eBook Content of Conceptual Physics Chapter 22 Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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