

**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 Asses Answers Ch 5

1. Understanding the eBook Conceptual Physics Asses Answers Ch 5
 - The Rise of Digital Reading Conceptual Physics Asses Answers Ch 5
 - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physics Asses Answers Ch 5
 - 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 Asses Answers Ch 5
 - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physics Asses Answers Ch 5
 - Personalized Recommendations
 - Conceptual Physics Asses Answers Ch 5 User Reviews and Ratings
 - Conceptual Physics Asses Answers Ch 5 and Bestseller Lists
5. Accessing Conceptual Physics Asses Answers Ch 5 Free and Paid eBooks
 - Conceptual Physics Asses Answers Ch 5 Public Domain eBooks
 - Conceptual Physics Asses Answers Ch 5 eBook Subscription Services
 - Conceptual Physics Asses Answers Ch 5 Budget-Friendly Options
6. Navigating Conceptual Physics Asses Answers Ch 5 eBook Formats
 - ePub, PDF, MOBI, and More
 - Conceptual Physics Asses Answers Ch 5 Compatibility with Devices
 - Conceptual Physics Asses Answers Ch 5 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Conceptual Physics Asses Answers Ch 5
 - Highlighting and Note-Taking Conceptual Physics Asses Answers Ch 5
 - Interactive Elements Conceptual Physics Asses Answers Ch 5

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8. Staying Engaged with Conceptual Physics Asses Answers Ch 5
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Conceptual Physics Asses Answers Ch 5
 9. Balancing eBooks and Physical Books Conceptual Physics Asses Answers Ch 5
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Conceptual Physics Asses Answers Ch 5
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Conceptual Physics Asses Answers Ch 5
 - Setting Reading Goals Conceptual Physics Asses Answers Ch 5
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Conceptual Physics Asses Answers Ch 5
 - Fact-Checking eBook Content of Conceptual Physics Asses Answers Ch 5
 - 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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