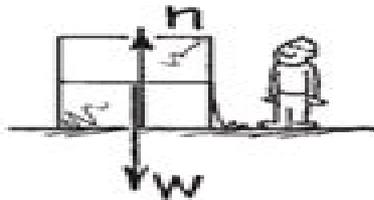
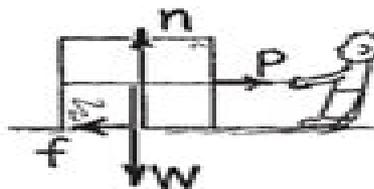


Concept-Development Practice Page **6-1**

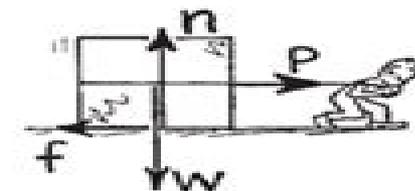
Friction



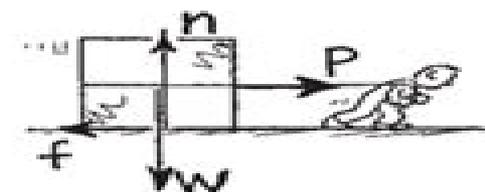
1. A crate filled with delicious junk food rests on a horizontal floor. Only gravity and the support force of the floor act on it, as shown by the vectors for weight W and normal force n .
 - a. The net force on the crate is **(zero)** (greater than zero).
 - b. Evidence for this is **no acceleration**.



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

Conceptual Physics Chapter 22 Answers

John D. Cutnell, Kenneth W. Johnson



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Physics for Scientists and Engineers Paul A. Tipler,1999 This is an extensively revised edition of Paul Tipler s standard text for calculus based introductory physics courses It includes entirely new artwork updated examples and new pedagogical features

Instructor's Manual with Abbreviated Solutions to Accompany University Physics Alvin Hudson,1982

Learner-centered Science Education,2019-02-11 This book arises from the author s experience of the South African science curriculum development and teaching since 1994 exploring definitions of science and approaches to science education appropriate to a newly liberated developing country Each of the 50 chapters is borne out of Cliff Malcolm s close relationships with communities in SA where he obtained deep insights into their attitudes to science teaching and learning providing him with an empirical basis to challenge tertiary institutions to transform their curriculum offerings to embrace the culture and world views of African students The author makes a compelling case for the evolution of relevant science teaching and learning that provide capital for indigenous knowledges The book has relevance also to first world countries because the social and educational problems facing South Africa though starker here are present in all countries The book addresses among others the nature of scientific knowledge and knowledge production how scientific knowledge can be accessed and represented what counts as legitimate scientific knowledge in the South African context of colonization liberation inequity and African belief systems The book extends the debates on African Science and offers ways of talking and writing about science that reframe it acknowledging problematics and pluralism offering ways of bringing Western and African thought together Using a richly descriptive novelistic style the author sketches vivid portraits of his research sites participants and experiences His vignettes are embedded in deep theoretical insights lending gravity to the development discourse in science education providing a coherent language for the transformational agendas of science educators committed to the project of social justice through a relevant science

Physics James S. Walker,2007 This text for courses in introductory algebra based physics features a combination of pedagogical tools exercises worked examples active examples and conceptual checkpoints

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