Concept-Development Practice Page

6-1

Friction



- 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).



- 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).
 - The net force on the crate is (less than) (equal to) (greater than) zero.



- 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.
 - The net force acts toward the right, so acceleration acts toward the (left) (right).
- 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
- If the force of sliding friction is 250 N, what force is necessary to keep the crate sliding at constant velocity? <u>250 N</u>
- 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? ____5 m/s² ___ 500 N? ____5 m/s²

CONCEPTUAL PHYSICS

Conceptual Physics Answers Sheet

Larry D. Kirkpatrick, Gerald F. Wheeler

Conceptual Physics Answers Sheet:

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ENC Focus ,1999 2008 Physics Education Research Conference Charles Henderson, Mel Sabella, Leon Hsu, 2008-11-21 The 2008 Physics Education Research Conference brought together researchers studying a wide variety of topics in physics education The conference theme was Physics Education Research with Diverse Student Populations Researchers specializing in diversity issues were invited to help establish a dialog and spur discussion about how the results from this work can inform the physics education research community The organizers encouraged physics education researchers who are using research based instructional materials with non traditional students at either the pre college level or the college level to share their experiences as instructors and researchers in these classes

Assessment of the Learning

Cycle and Inquiry Based Learning in High School Physics Education Russell Lauren Billings, 2001 **Big Book of Home Learning** Mary Pride, 1991-07 Learn at home with exciting products for all school subjects New **American Journal of** Physics, 2001 Geophysics and space physics, 2004 Europhysics journal Cognitive Structure and Conceptual Change The Science Teacher Leo H. T. West, A. Leon Pines, 1985 Announcer American Association of Physics Teachers, 2003 El-Hi Textbooks and Serials in Print, 1996 R R Bowker .1995 Focus a Magazine for Innovators .1999 Publishing, Bowker, 1996-02 Physics James S. Walker, 2006 Walker uses an integrated suite of tools worked Examples Active Examples and Conceptual Checkpoints to make conceptual understanding an integral part of solving quantitative problems The pedagogy and approach are based on over 20 years of teaching and reflect the results of physics education 2007 Physics Education Research Conference Leon Hsu, Charles Henderson, Laura McCullough, 2007-11-26 This research text brings together peer reviewed papers from the 2007 Physics Education Research Conference whose theme was Cognitive Science and Physics Education Research The conference brought together researchers studying a wide variety of topics in physics education including transfer of knowledge learning in physics courses at all levels teacher education and cross disciplinary learning This up to date text will be essential reading for anyone in physics education research

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