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 Ch 27 Answers

Jae R. Ballif

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