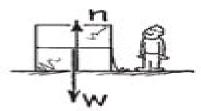
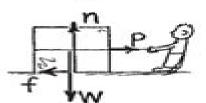
# Concept-Development Practice Page

6-1

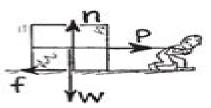
#### Friction



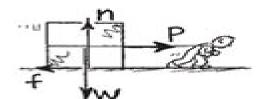
- A crate filled with delicious junk food rests on a horizontal floor. Only gravity and the support force of the floor act on it, as shown by the vectors for weight W and normal force n.
  - a. The net force on the crate is (zero) (greater than zero).
  - b. Evidence for this is no acceleration



- 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

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J Elliott

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