

**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 .

- The net force on the crate is (zero) (greater than zero).
- Evidence for this is no acceleration.



2. A slight pull P is exerted on the crate, not enough to move it.

- The force of friction f acting on the crate is (less than) (equal to) (greater than) P .
- 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.

- Friction f is (less than) (equal to) (greater than) P .
- Constant velocity means acceleration is (zero) (greater than zero).
- 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 .

- 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
- 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? 250 N
- 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 Exercises

Paul G. Hewitt



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