

**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 33 Exercises

Simmons College (Boston, Mass.)

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the Simmons College text.

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Body Psychotherapy: History, Concepts, and Methods Michel Heller, 2012-08-14 From yoga to neuroscience a tour of major ideas about the body and mind Body psychotherapy which examines the relationship of bodily and physical experiences to emotional and psychological experiences seems at first glance to be a relatively new area and on the cutting edge of psychotherapeutic theory and practice It is but the major concepts of body mind treatment are actually drawn from a wide range of historical material material that spans centuries and continents Here in a massively comprehensive book Michael Heller summarizes all the major concepts thinkers and movements whose work has led to the creation of the field we now know as body mind psychotherapy The book covers everything from Eastern and Western thought beginning with yoga and Taosim and moving to Plato and Descartes It also discusses major developments in biology how organisms are defined and neuroscience This is truly a comprehensive reference for anyone interested in the origins of the idea that the mind and body are not separate and that both must be understood together in order to understand people and their behavior Chemical News and Journal of Industrial Science ,1913 **Research and Technology Program Digest Flash Index** ,1967

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