

SECTION REVIEW

- 1.** For each of the following cases, indicate whether the work done on the second object in each example will have a positive or a negative value.
 - a.** The road exerts a friction force on a speeding car skidding to a stop.
 - b.** A rope exerts a force on a bucket as the bucket is raised up a well.
 - c.** Air exerts a force on a parachute as the parachutist falls to Earth.
- 2.** If a neighbor pushes a lawnmower four times as far as you do but exerts only half the force, which one of you does more work and by how much?
- 3.** A worker pushes a 1.50×10^3 N crate with a horizontal force of 345 N a distance of 24.0 m. Assume the coefficient of kinetic friction between the crate and the floor is 0.220.
 - a.** How much work is done by the worker on the crate?
 - b.** How much work is done by the floor on the crate?
 - c.** What is the net work done on the crate?