

Section Review

- List three examples of each of the following:
 - a force causing an object to start moving
 - a force causing an object to stop moving
 - a force causing an object to change direction
- Give three examples of field forces described in this section and three examples of contact forces you observe in everyday life. Explain how you know that these are forces.
- Draw a free-body diagram of a football being kicked. Assume that the only forces acting on the ball are the force of gravity and the force exerted by the kicker.
- Physics in Action** Draw a force diagram of a crash-test dummy in a car at the moment of collision. For this problem, assume that the forces acting on the car are 19 600 N downward, 17 800 N forward, and 25 000 N backward. The forces acting on the dummy are 585 N downward, 175 N backward, and 585 N upward.
- Physics in Action** Use the information given above to draw a free-body diagram showing only the forces acting on the car in item 4. Label all forces.
- Physics in Action** Use the information given above to draw a free-body diagram showing only the forces acting on the dummy in item 4. Label all forces.