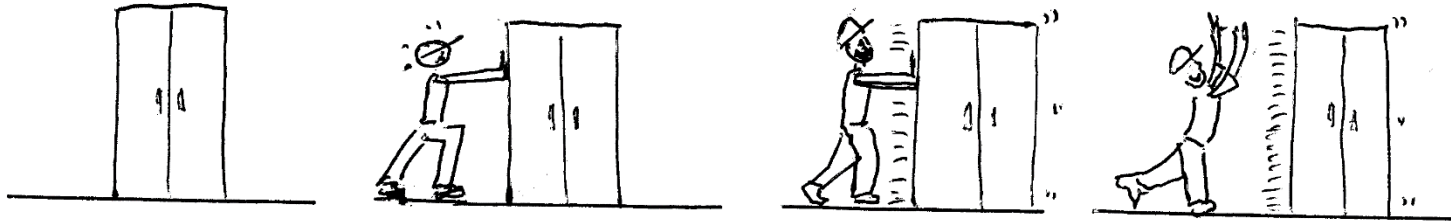


Moving a Refrigerator

Scenario: A refrigerator is resting on the floor. A worker tries to push the fridge, but it won't budge because it's too heavy. The worker exerts more effort, and the fridge starts sliding across the floor. The worker flings the fridge to the right, and it slides a short distance across the floor before stopping.

Instructions

1. In **black** ink, draw all of the forces acting on the fridge.
2. In **bold black** ink, draw an arrow indicating the net force.
3. In **red** ink, draw an arrow representing the change in motion (acceleration) of the fridge.



Courtesy of Hector Mireles

Questions

1. What types of friction are exerted on the fridge?

2. What change could you make to increase the friction acting on the fridge? Explain how this change increases friction.

3. What changes could you make to decrease the friction? Explain how this change decreases friction.
