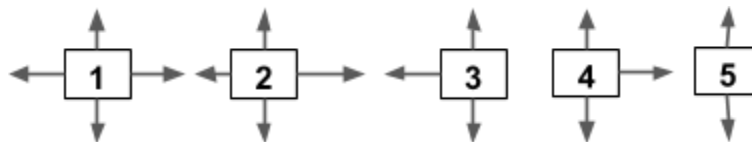


Even More Forces

1. Free Body Diagrams are given for objects 1-5 below.



- a. Identify which of the objects could be moving to the right.
- b. Identify which objects could be moving to the left.
- c. Identify which of the objects have a rightward acceleration.
- d. Identify which of the objects have a leftward acceleration.
- e. Identify which of the objects are not accelerating.

2. Noah pushes two large boxes across a frictionless surface. The right box has a mass of 20 kg and the left box has a mass of 30 kg. The boxes accelerate by 1.0 m/s^2 .



- a. Draw a free body diagram for the right box.
- b. Calculate the force of the left box on the right box.
- c. Draw a free body diagram for the left box.
- d. Calculate the force of Noah pushing on the left box.

