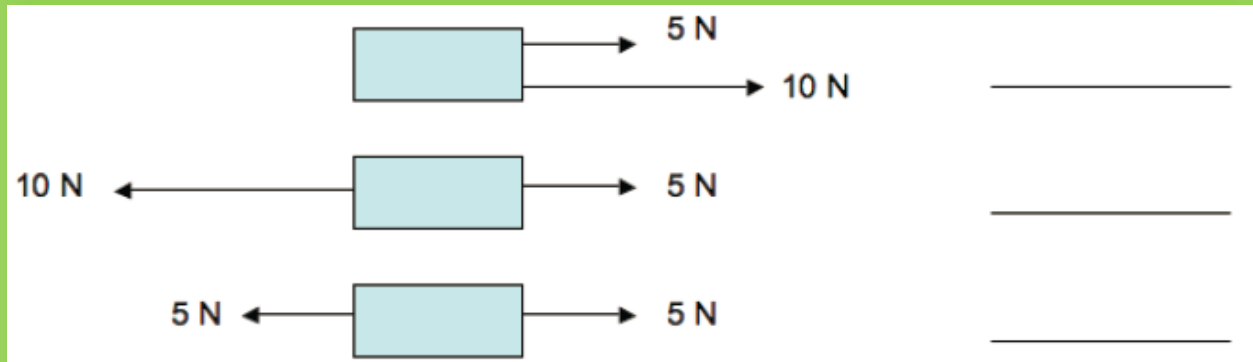


4.3 Review Questions

1. Determine the Net Force acting on these 2 Kg blocks:



2. Each of the blocks above has a mass of 2 Kg. Calculate the acceleration for each.

3. A 100 Kg crate sits on a factory floor. A worker pushes on the crate with a force of 300 N to the right and the box accelerates to the right at 1.5 m/s/s. What is the force of friction acting on the box?

4. A hot air balloon (mass = 600 Kg) descends at a constant velocity of 8 m/s. What is the sum of the forces acting upward on the balloon?

5. A crate is being pushed across the floor at a constant velocity. If a person has to push with 500 N of force, how much friction must the floor be applying to the crate?