Complete the following questions. Be sure to show ALL your work and give the proper units for your answers.

1. Benny pushes Betty on her skateboard with a force of 120N. If she accelerates at 2.0 m/s², what is her mass?

2. A rabbit with a mass of 2.0 kg accelerates at 3.0m/s^{2.} Find the force acting on the rabbit.

3. An 80 kg man runs 8.0 m/s. What is his momentum?

Find the momentum of a 2kg basketball with a velocity of 5m/s.

Answer two of the following:

1. For each of Newton's Laws of motion give an example that illustrates that law.

2. Describe what happens to momentum when objects collide. Give at least two examples.

3. Describe the forces on an object in a liquid and describe how you can make an object float.