Name: _____ Chapter 3.1 Homework Conceptual Physics

Parent Signature:

Reviewing Concepts

1. Define the term force and give three examples of forces. (2)

2. Give an example of Newton's first law in everyday life. (1)

3. Explain why Newton's first law is also known as the law of inertia. (1)

4. List two units for measuring mass and two units for measuring force. (1)

5. One newton is the ______ it takes to change the ______ of a _____ of a _____ in 1 s. (1)

Solving Problems

1. Order the following mass measurements from smallest to largest: 0.5 kg, 1000 g, 5 kg, 50 g. (1)

2. Dani and Gina are pushing on a box. Dani pushes with 250 N of force and Gina pushes with 100 N of force.

- a. What is the net force if they both push in the same direction? (0.5)
- b. What is the net force if they push in opposite directions? (0.5)