Newton’s 2nd Law Calculations Homework

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

Use your notes from this section to answer the following questions.

1. How much force would it take to throw a 1 kg ball at 15 m/s2

2. How much force would it take to move a 1000 kg car at 5 m/s2?

3. Alex throws a 1 kg football with a force of 7 N. What is the football’s acceleration?

4. What is the acceleration of a softball if it has a mass of .5 kg and hits the catcher’s glove with a force of 25 N?

5. A 10 kg bowling ball would require what force to accelerate it down an alleyway at a rate of 3 m/s2?