Name: _____

Date: _____

Period: _____

Review #2 – Force

1. What is Newton's Second Law of Motion? _____

2. When a hockey puck is at rest on an ice rink all the forces acting upon the puck are said to be . . .
   a. Equal b. Supportive c. Balanced d. Excessive

3. When a player shoots the hockey puck, the forces are now referred to as . . .
   a. Changed b. Unbalanced c. Equalized d. Inertial

4. The hockey puck has a mass of 0.15kg and is accelerated at a rate of 14m/s, how much force was applied to the puck? Show Your Math.

5. An unbalanced force is applied to an object which causes it to accelerate at 30 m/s. If he unbalanced force applied to the same object is doubled, what will be the object's acceleration? _____ Explain your answer by describing the relationship between force and acceleration. _____

6. If the same force is applied to two objects, one with a mass of 10kg and the other with a mass of 20 kg, which object will accelerate faster? _____ Explain be describing the relationship between mass and acceleration. _____

7. Galileo conducted a series of experiments, which we also did in class, and found the mass _____ effect how fast objects fell when dropped, but that the height of the drop _____ effect the speed of the falling object. (fill in the blanks with "did" or "did not")

8. How fast do objects accelerate as a result of gravity here on earth?
   a. 50m/s b. 32 ft/sec c. 10 miles / hour d. $9.8 m/s^2$

9. Which is stronger, gravity or magnetism? _____ Provide evidence to support your claim. _____