Name _____ Date _____

Regents Physics Forces 1D WS 1R

Period _____ Mr. Moy

Intro to Forces

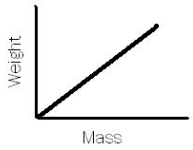
1. The SI Unit of force is _____.

2. Identify all of the forces present in the following scenarios.
   a. A bucket is suspended from the ceiling by a rope.

   b. Two electrons repel one another.

   c. A box is pushed across a carpeted floor.

3. The graph below shows the relationship between weight and mass for a series of objects. The slope of the graph represents



A. normal force B. momentum C. change of position D. acceleration due to gravity

4. The magnitude of the acceleration due to gravity on the surface of planet A is twice as great as on the surface of planet B. What is the ratio of the weight of mass X on the surface of planet A to its weight on the surface of planet B?

A. 2:1 B. 1:2 C. 1:4 D. 4:1

5. A 95 kilogram astronaut has a weight of 930 newtons on planet Earth. He travels to Mercury where the acceleration due to gravity is 3.59 m/s^2. Calculate his weight on Mercury.