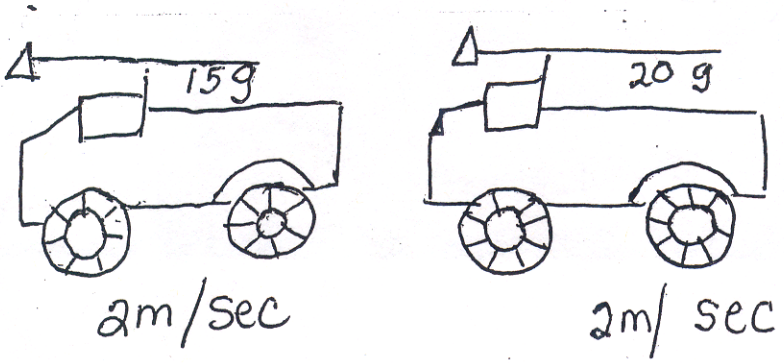
Forces and Motion
Chapter 5 Study guide

Name:_____Date:_____

Write the correct answer on the space provided.
velocity force acceleration gravity inertia friction
speed gravitation

_____1. A force that acts between masses and causes them to attract one another
_____2. A push and pull
_____3. The change of position during a unit of time
_____4. The force of attraction between Earth and other objects
_____5. The speed and direction of an object
_____6. The property of matter that keeps a moving object moving in a straight line
_____7. A change in speed or direction of an object's motion
_____8. A force that resists motion, relative to each other, of objects that are touching.

Fill in the blank with correct answer.

9. What is the measurement of the force of gravity on an object?_____
10. If you apply the same force on each of the following objects, which will have the greatest acceleration? _____
    basketball volleyball
    golf ball kickball
11. If the two students push a table against each other and the table doesn't move. Is this force balanced or unbalanced?
12. Brandon and Ian push on a filing cabinet to the right. Both of them apply a force of 25 N. At the same time, Peter pushes on the filing cabinet, to the left, using a force of 25 N. What is the net force on the filing cabinet? What is the number of newton _____N, and to what direction?_____
13. How would you describe the mass of your body? Explain what is meant by mass. _____
14. A bowling ball and a soccer ball are rolling at the same speed on the same surface. Why will the bowling ball be harder to stop? It has greater what_____ _____?
15. What two things must be measured to find the speed of a moving car?_____and _____.
16. Which is the same about the two toy trucks?