Newton`s First and Second Law

Multiple Choice:

How long will an object remain at rest, according to Newton's First Law of Motion? (1 mark)

A. It can't rest.
B. Until noon.
C. Until an unbalanced force occurs.
D. As long as there are unbalanced forces acting on it.

What is inertia? (1 mark)

A. The tendency of an object to continue doing what it is currently doing.
B. The opposing force of gravity.
C. Another name for unbalanced forces.
D. The mass of an object.

The amount of force needed to move an object is measured in… (1 mark)

A. Newtons
B. Kilometers
C. Seconds
D. Grams

Gravity and magnetism are examples of what kind of forces? (1 mark)

A. Frictional
B. Non-contact
C. Contact
D. Momentum

Why do you lean towards the left when a car turns right? (1 mark)
A. Because of inertia
B. Because of gravity
C. Because of buoyancy
D. Because of velocity

A person is measured on the moon and on Earth. Which statement would be true? (1 mark)

A. The mass would be the same on the moon as it is on Earth, but the weight would be more on the moon than it is on Earth.
B. The weight would be the same on the moon as it is on Earth, and the mass would be more on the moon than it is on Earth.
C. The mass and weight would be the same on the moon as it is on Earth, because mass is another name for weight.
D. The mass would be the same on the moon as it is on Earth, but the weight would be more on Earth than it is on the moon.

A rightward force of 302 N is applied to a 28.6-kg crate to accelerate it across the floor. The coefficient of friction between the crate and the floor is 0.750. Determine the acceleration of the crate.

A 405-N rightward force is use to drag a large box across the floor with a constant velocity of 0.678
m/s. The coefficient of friction between the box and the floor is 0.795. Determine the mass of the
box.

References:

http://www.proprofs.com/quiz-school/story.php?title=laws-motion-quiz

http://www.physicsclassroom.com/getattachment/curriculum/newtlaws/newtl17.pdf