



Name: _____

Date _____

Newton's Laws of Quiz

Multiple Choice *Choose the best answer for each of the questions.*

1. You are in an airplane when the engines fail. Which of the following will likely happen?
 - (a) Your plane will immediately fall out of the sky.
 - (b) Your plane will continue to glide as it slowly loses velocity and altitude.
 - (c) Your plane will go into a dive immediately.
 - (d) Your plane will catch fire and burn up.
2. A net external force of 50 Newtons acts on a 10-kilogram object. The object must be -
 - (a) accelerating
 - (b) moving at a constant speed
 - (c) at rest
 - (d) moving backward.
 - (e) it is impossible to tell.
3. Billy-Bob is hit by a train. Which of the following forces is greatest?
 - (a) The force the train puts on Billy-Bob.
 - (b) The force that Billy-Bob puts on the train.
 - (c) Both forces are equal.
 - (d) it is impossible to tell.
4. Friction is best defined as -
 - (a) Heat.
 - (b) A force that causes objects to slow down.
 - (c) The destruction of energy.
 - (d) the process by which objects return to their natural resting state.
5. Sebastian is in space. Which of the following is true?
 - (a) He has weight but no mass.
 - (b) He has mass but not weight.
 - (c) He has neither weight nor mass.
 - (d) He has both weight and mass.



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True or False *Mark each question as either TRUE or FALSE*

- _____ 1. When you kick a ball in an open field, there is a force that keeps the ball moving.
- _____ 2. When a man is walking forward, the frictional force acting on the man is always backward.
- _____ 3. If an object is at rest, there must be no forces acting on the object.
- _____ 4. The force of gravity on earth is 9.81 m/s^2
- _____ 5. A rocket takes off because its exhaust gasses push against the ground.
- _____ 6. Mike the alien has a mass of 50kg on his planet, but his planet's gravity is only half as strong as the Earth's. On Earth, he will have a mass of 100 kg.
- _____ 7. If there is no force acting on an object, the object must be at rest.
- _____ 8. An unbalanced, external force will always cause an object to speed up or slow down.
- _____ 9. The normal force is always equal to the gravitational force.
- _____ 10. Mass and weight measure the same thing, just in different units.

Total Points Earned: _____

Corrected by: _____