## Newton's Laws: Quiz 1

1 motio	is the tendency of an object at rest to remain at rest and an object in motion to remain in unless a force acts on the object.
0	A. Mass
Ō	B. Inertia
Ō	C. Weight
Ö	D. Volume
2. Wh	ich of the following is always true when a net force acts on a stationary object?
0	A. The object changes direction.
0	B. The object remains still.
0	C. No force acts on the object.
0	D. The object moves.
	or people are asked to move a square table. One person stands at each of the four sides of the table. It berson pushes the table with a force of 20 N, the table will
0	A. not move because all forces are pushing in the same direction.
0	B. not move because the net force is zero.
0	C. move because a net force of 80 N is acting on it.
0	D. move because unbalanced forces are acting on it.
and 1	ee people are pushing on a box. Two of them are pushing in the same direction with forces of 180 N 70 N, and the third is pushing in the opposite direction with a force of 220 N. The net force on the box, and the box moves the third person.
0	A. 130 N, toward
Ō	B. 130 N, away from
Ō	C. 570 N, toward
Ō	D. 570 N, away from

5. A large object with a mass of 1 kg and a small object with a mass of 10 kg are both moving at the same velocity. Which object requires the greater amount of force to bring it to a stop?	
A. The 1 kg object will require more force to bring it to a stop.	
B. The 10 kg object will require more force to bring it to a stop.	
C. Both objects will require the same amount of force to bring them to a stop.	
D. Neither object requires force to bring them to a stop because they are not accelerating.	
6. An object that is not moving will remain in that state as long as all the forces acting on it are	
A. small.	
O B. external.	
C. balanced.	
O D. unbalanced.	
7. An object can never be in a state of equilibrium when force(s) act(s) on it.	
O A. no	
O B. one	
C. two	
D. more than two	