FORCES and ACCELERATION

Matching (you will need to use some terms more than once)	
1. A force is2. The sum of all the forces acting	 a. the tendency of an object to resist a change in motion.
on an object 3. The sum of all the forces acting on an	b. balanced forces
object is zero.	c. direction
4. If several people push on a large bolder and it begins to move then forces are	d. a push or pull
5. Inertia	e. net force
6. Velocity can change when speed or	f. unbalanced forces
7. Even if an object is traveling at constant speed its velocity can change if its changes.	g. mass
8. The amount of inertia an object has depends on its	
Pick the word(s) that correctly complete the statement.	
 Newton's first law of motions says, "An object at rest will will not stay at rest unless acted upon by a(n) balanced unbalanced force. An object in motion will will not stay in motion unless acted upon by a balanced unbalanced force. 	
10.A racecar driving 200 km/hr. around an oval racetrack is is not accelerating, because its direction is is not changing.	
11.If you pushed on the side of a toy truck that is rolling along the floor would the motion of the truck change? Yes No This is because the push is a(n) balanced force unbalanced force. Balanced unbalanced forces cause a change in motion.	

