

Questions:

True or False:

- Newton's Third Law states that if A exerts a force on B, B exerts a force on A with equal magnitude and opposite direction.

This means that any time a gun or cannon is fired, it exerts a strong backwards force on the person holding it called the *recoil*

Someone is trying to design a different type of cannon called a *rotor cannon*. In this cannon, instead of being fired out of a barrel, a cannonball is rotated extremely fast and then let go. A rotor cannon *has no recoil*. Explain this fact by referring to the principles of circular motion and Newton's Laws listed above.