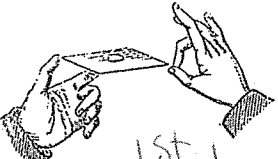
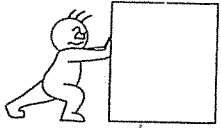

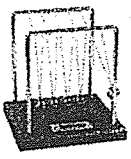



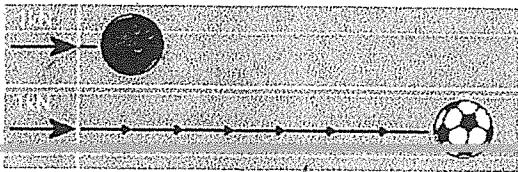


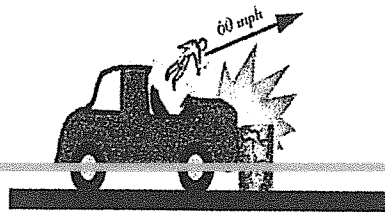
NEWTON'S LAWS OF MOTION INTERACTIVE STUDY GUIDE

<p>What is Motion? a change in position</p>	<p>A rate of change in position describes what? Speed</p>	<p>If a truck speeds off after being stopped at a stop sign, he is doing what? accelerating</p>	<p>You hear that a tornado is moving <u>20km/h south</u>; you are given the storms (speed + direction) velocity</p>	<p>A Newton measures <u>Force.</u></p>
<p>What type of force is occurring when a book is sitting on a table? balanced</p>	<p>The scientist who gave us the Law's of Motion: Isaac Newton</p>	<p>Every force has a <u>reaction</u> force. (or opposite)</p>	<p>An unbalanced force cause an object to Change its motion (move or stop)</p>	<p>Another name for the first law of motion. Inertia</p>
<p>This picture shows which law of motion?  1st Law</p>	<p>What force is always pushing down on objects on earth at a rate of <u>9.8m/s²</u>? gravity</p>	<p>Two boys are playing tug-of-war, the smaller boy moves toward the larger boy because of a (balanced/unbalanced) force? (circle one)</p>	<p>Which law of motion is represented in this picture?  2nd Law</p>	<p>A push or a pull. force</p>
<p>The law of motion that states that an object will travel in the direction of the force being applied: 2nd law</p>	<p>A force that pulls all objects toward each other. gravity</p>	<p>This picture shows which law of motion?  3rd law</p>	<p> What is this apparatus called? Newton's cradle</p>	<p>The tendency of an object to resist any change in its motion inertia</p>
<p>This picture shows which law of motion?  3rd Law</p>	<p>The resistance of a sliding motion against two surfaces. friction</p>	<p>This picture shows which law of motion?  1st Law</p>	<p>The law of motion that states for every action there is a reaction. 3rd Law</p>	<p>This picture shows which law of motion that is about to occur?  2nd Law</p>

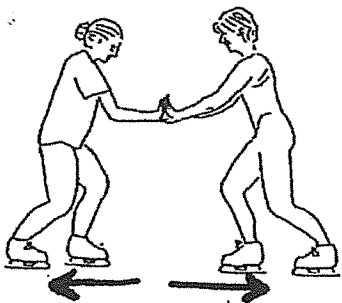
IDENTIFY WHICH OF NEWTON'S 3 LAWS IS BEING DEMONSTRATED BY EACH PICTURE BELOW.



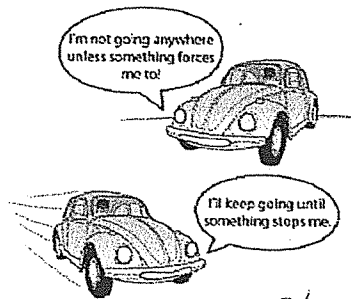
1. 2nd



2. 1st



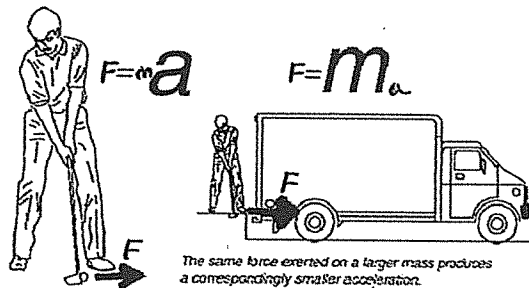
3. 3rd



4. 1st



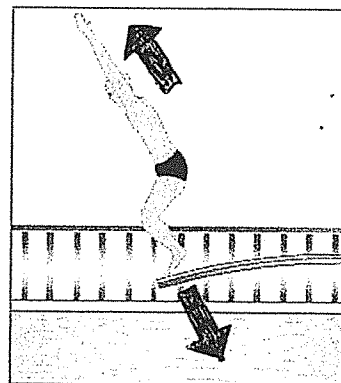
5. 1st or 2nd



6. 2nd



7. 3rd



8. 3rd