WHICH LAW?

We're told that Sir Isaac Newton discovered some things about motion when an apple dropped on his head. Whatever "force" was behind his discoveries, we have benefited from his discoveries.

Here are his three laws of motion. You should be familiar with them. Fill in the missing words in each of the three laws. Then tell which law fits each example below.



Which la	w?	First, Second, or Third?	
***************************************	1.	A frog leaping upward off his lily pad is pu another lily pad instead of continuing on	illed downward by gravity and lands on in a straight line.
	2.	As the fuel in a rocket ignites, the force of expansion and explosion pushes out the back of the rocket and pushes the rocket forward.	NEWTON'S FIRST LAW OF MOTION: stays at
	3.	When you are standing up in a subway train, and the train suddenly stops, your body continues to go forward.	or an object that is <u>moving</u> at a constant keeps rate in a straight unless another
	4.	After you start up your motorbike, as you give it more gas, it goes faster.	
·	5.	A pitched baseball goes faster than one that is gently thrown.	
<u> </u>	6.	A swimmer pushes water back with her arms, but her body moves forward.	
-6	7.	As an ice skater pushes harder with his leg muscles, he begins to move faster.	
-	8.	When Bobby, age 5, and his dad are skipping pebbles on the pond, the pebbles that Bobby's dad throws go farther and faster than his.	
	9.	When you paddle a canoe, the canoe goes forward.	
	10.	A little girl who has been pulling a sled behind her in the snow is crying because when she stopped to tie her	NEWTON'S THIRD LAW OF MOTION: For every (or force), there is an

Name

hat on, the sled kept moving and hit

her in the back of her legs.

___action (or force).