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	law?	First,	Second,	or	Third?

	1.	A frog leaping upward off his lily pad is put another lily pad instead of continuing on i	그 그 그 그 그 그 그 그는 그 그 그 그 그 그 그 그 그 그 그
	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: An object at 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 ismoving_ata constant in a straightkeeps
	4.	After you start up your motorbike, as you give it more gas, it goes faster.	moving at that unless anotheracts on it.
	5.	A pitched baseball goes faster than one that is gently thrown.	
	6.	A swimmer pushes water back with her arms, but her body moves forward.	NEWTON'S SECOND LAW OF MOTION:
-	7.	As an ice skater pushes harder with his leg muscles, he begins to move faster.	make an ob-
*	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.	depends on the of the object
Ţ. 	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 hat on, the sled kept moving and hit her in the back of her legs.	NEWTON'S THIRD LAW OF MOTION: For every (or force), there is an action (or force).

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 law? First, Second, or Third?

- 1. A frog leaping upward off his lily pad is pulled downward by gravity and lands on another lily pad instead of continuing on in a straight line.
- 3 rd 2. As the fuel in a rocket ignites, the force of the gas expansion and explosion pushes out the back of the rocket and pushes the rocket forward.
- 3. When you are standing up in a subway train, and the train suddenly stops, your body continues to go forward.
- 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.
- 6. A swimmer pushes water back with her arms, but her body moves forward.
- 2 nd 7. As an ice skater pushes harder with his leg muscles, he begins to move faster.
- 2 nd 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 hat on, the sled kept moving and hit her in the back of her legs.

NEWTON'S FIRST LAW OF MOTION:

An object at rest stays at rest
or an object that is moving at a

special in a straight line keeps
moving at that reste unless another

cerce acts on it.

NEWTON'S SECOND LAW OF MOTION:

The amount of force needed to make an object change its position depends on the mass of the object and acceleration rate.

NEWTON'S THIRD LAW OF MOTION:

For every action (or force), there is an action (or force).

Note - arguments for any -

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