



## Newton's First Law

1. State Newton's First Law.

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2. State the definition of:

a. Inertia.

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b. Resultant force.

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c. Equilibrium

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3. Explain the difference between balanced and unbalanced forces.

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4. Complete the table for each scenario after calculating the resultant force in each case.

a.



Resultant Force = \_\_\_\_\_

Initial motion	Resulting motion
Object was initially stationary	
Object was initially moving at constant speed to the right	
Object was initially moving at constant speed to the left	

b.



Resultant Force = \_\_\_\_\_

Initial motion	Resulting motion
Object was initially stationary	
Object was initially moving at constant speed to the right	
Object was initially moving at constant speed to the left	



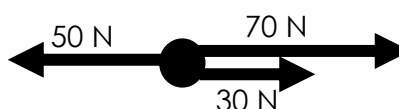
c.



Resultant Force = \_\_\_\_\_

Initial motion	Resulting motion
Object was initially stationary	
Object was initially moving at constant speed to the right	
Object was initially moving at constant speed to the left	

d.



Resultant Force = \_\_\_\_\_

Initial motion	Resulting motion
Object was initially stationary	
Object was initially moving at constant speed to the right	
Object was initially moving at constant speed to the left	

