



## 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 = \_\_\_\_\_

<b>Initial motion</b>	<b>Resulting motion</b>
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 = \_\_\_\_\_

<b>Initial motion</b>	<b>Resulting motion</b>
Object was initially stationary	
Object was initially moving at constant speed to the right	
Object was initially moving at constant speed to the left	



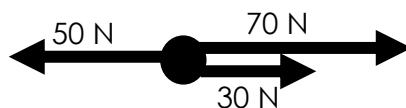
c.



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

<b>Initial motion</b>	<b>Resulting motion</b>
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 = \_\_\_\_\_

<b>Initial motion</b>	<b>Resulting motion</b>
Object was initially stationary	
Object was initially moving at constant speed to the right	
Object was initially moving at constant speed to the left	

