**Newton’s First Law of Motion**

**Newton’s First Law** (law of inertia):

Forces may be **balanced** or **unbalanced**

**Balanced forces** –\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. There is **NO \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**Unbalanced forces** – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ There is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Objects at Rest tend to …

**Inertia:**

**Mass:**

Relationship of mass and inertia:

Ex:

Objects in motion tend to …

***Net Force Notes:***