# Net Forces & Gravity

# Net Forces

C-notes

**Forces that are working against or with another force can be shown mathematically:**

**1-When forces work together add the two forces:**

**12 N + 8 N= 20 N**
**The number that is the result is the NET FORCE**

# Net Forces

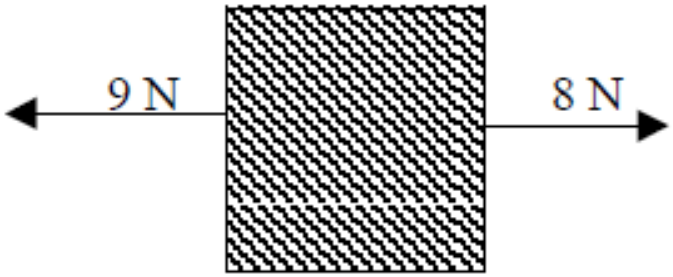
C-notes

**2- When forces are working against each other (towards or away) SUBTRACT the forces**

**12N to the right – 8 N to the left= 4 N right**
**The number that is the result is the NET FORCE**

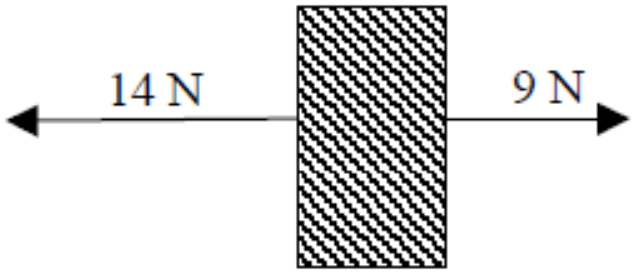
A)

1. Net force = _____
2. Draw the net force arrow below.
3. The foces are:
   a. balanced  b. unbalanced
4. The object:
   a. accelerates  b. does not accelerate




B)

1. Net force = _____
2. Draw the net force arrow below.
3. The foces are:
   a. balanced  b. unbalanced
4. The object:
   a. accelerates  b. does not accelerate



# Gravity

C-notes

- Gravity is the force of attraction between two objects with mass.
- The force of gravity depends on the mass of the object.
- The more mass, the more gravity
- The less mass, less gravity

# Gravity



**Example:**
**The force of gravity depends on the mass of the object.**

- **The sun has more mass than the moon, so gravity is stronger on the sun**

# Weight

C-notes

**Weight is the measurement of the force of gravity. Jupiter has more mass than the Earth. If you went to Jupiter, you would weigh 2 and half more than you do on Earth!**