

Forces and Motion Lab

Name _____ Hr. _____

Background information:

The force vector describes a specific amount of **force** and its direction. You need both value and direction to have a vector. Scientists refer to the two values as

direction and

This is a



magnitude
vector:

(size).



This is a vector showing Newton's second law of motion-

You can add two vectors by simply joining them head-to-tail:

Vectors can also be added or subtracted to



Forces and Motion Basics

Forces and Motion [phet](#)

GETTING STARTED:

- 1) Google PHET Forces and Motion Basics
- 2) Click on the 1st hit.
- 3) Click Run Now!
- 4) **WARM UP: (TUG OF WAR)**

Make sure all of the boxes in the upper right hand corner are checked.

Create a scenario on the rope pull which in which the forces are **BALANCED**. Draw a picture of the **VECTOR ARROWS** and the **NET FORCE (SUM OF FORCES) ARROW** in the space below.

1. What is the **NET FORCE** on the cart?

a. Balanced

b. unbalanced

c. net force

d. none of these

Create a scenario on the rope pull in which the forces are **UNBALANCED**. Draw a picture of the **VECTOR ARROWS** and the **NET FORCE (SUM OF FORCES) ARROW** in the space below.

2. What is the **NET FORCE** on the cart?

a. Balanced

b. unbalanced

c. net force

d. none of these



show motions.



Science Review Forces Section 1 Answer Key

Annelies Wilder-Smith



Science Review Forces Section 1 Answer Key:

Enjoying the Track of Phrase: An Psychological Symphony within **Science Review Forces Section 1 Answer Key**

In a global consumed by screens and the ceaseless chatter of fast interaction, the melodic splendor and psychological symphony created by the published word often fade into the back ground, eclipsed by the persistent sound and interruptions that permeate our lives. However, situated within the pages of **Science Review Forces Section 1 Answer Key** a marvelous literary treasure filled with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, this fascinating masterpiece conducts viewers on an emotional journey, skillfully unraveling the concealed melodies and profound influence resonating within each cautiously constructed phrase. Within the depths of the touching analysis, we will discover the book is main harmonies, analyze its enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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