

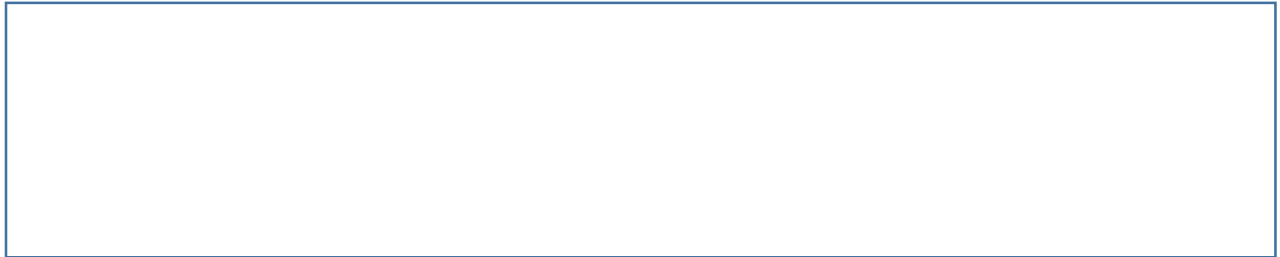
Name _____ Core _____ Date _____

Net Force Lab

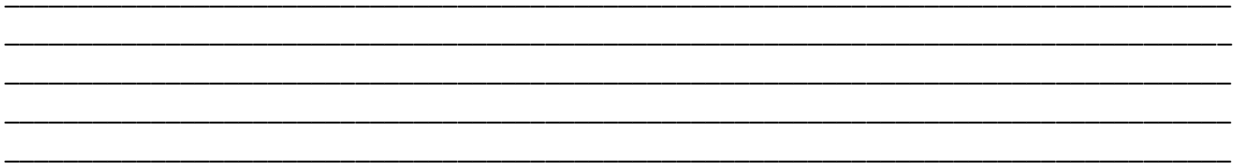
Instructions: Access the PhET Interactive Lab through the www.mathsciencewarrior.weebly.com website. Click Science, Physical Science, Force & Motion, Newton's Three Laws, scroll and select Net Force Interactive Lab.

Pre-Observation: What is the meaning of net force? _____

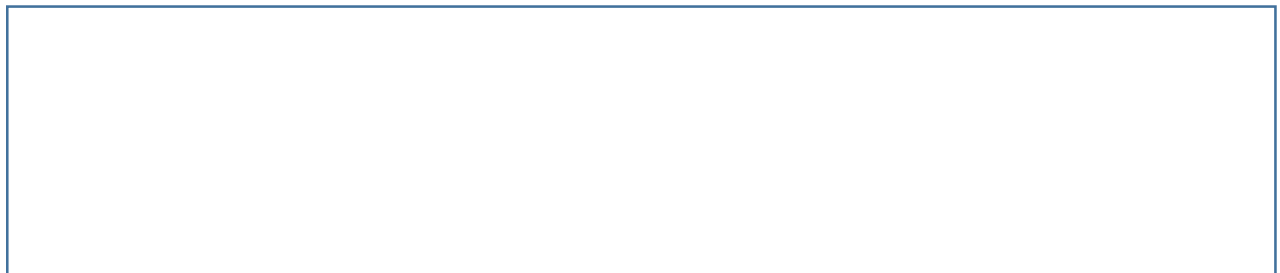
Observation #1: Click on the Sum of Forces & Values boxes, select the largest red & largest blue figures and place them on the rope and press 'GO'! Sketch and label your drawing including the direction, amount of force, and the result. Describe what you observed?



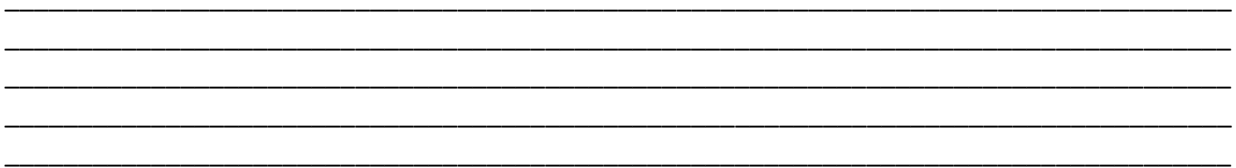
Description:



Observation #2: Click on the Sum of Forces & Values boxes, select the largest red & smallest blue figures and place them on the rope and press 'GO'! Sketch and label your drawing including the direction, amount of force, and the result. Describe what you observed?



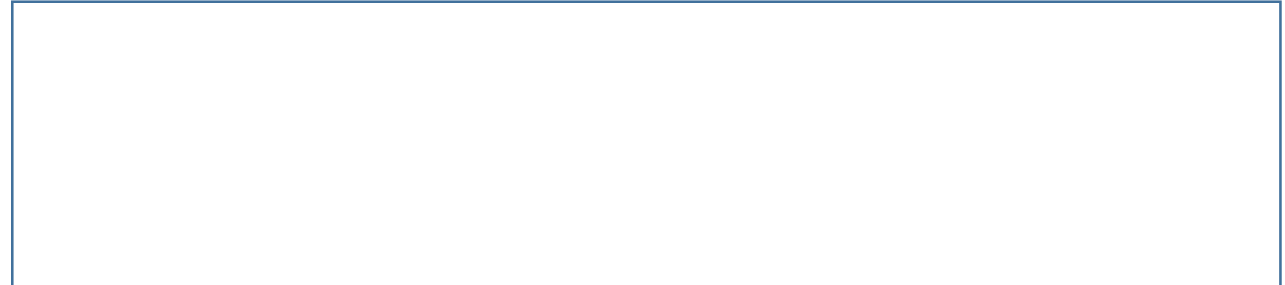
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Observation #3: How many small figures would you need to balance the force of one medium figure?
How do you know?

Observation #4: Click on the Sum of Forces & Values boxes, if the blue team has a net force of 250N, what combination of red figures would you need in order to beat the blue team by exactly 50N. Press 'GO'! Sketch and label your drawing including the direction, amount of force, and the result. Describe what you observed?



Description:

Scenario #1

If Mr. Brown and Mr. Paden are playing tug of war and Mr. Brown pulls with a force of 325N to the right and Mr. Paden pulls with a force of 345N to the left. Who will win and what is the sum of the forces?

Scenario #2

Create a net force scenario demonstrating your understanding of this lab. Show all math calculations.
