

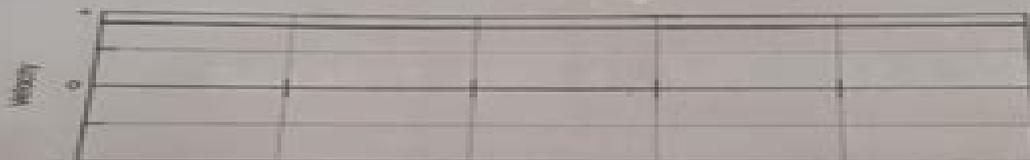
## PRE-LAB PREPARATION SHEET FOR LAB 4: COMBINING FORCES

(Due at the beginning of Lab 4)

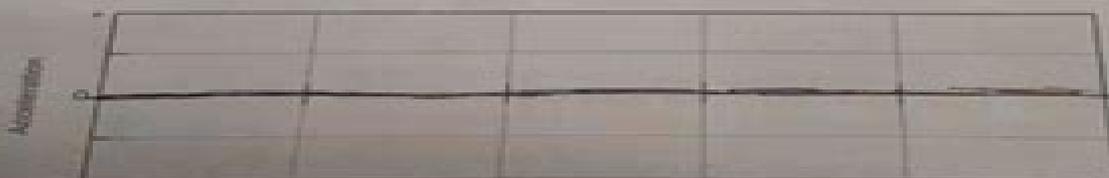
**Directions:**

Read over Lab 4 and then answer the following questions about the procedure.

1. A cart is moving toward the right and slowing down, as in Activity 1-1. Predict the direction of the combined (net) force on the cart.  
 1) Starts with  $(\rightarrow)$ , adds  $(\leftarrow)$ , slows down but still goes towards right
2. In Activity 2-1, what are the spring scales used for?  
 The Spring Scales are used for scaling force (then calibration) so we can get measurements
3. Why are two fan units used in Activity 2-2?  
 The two fan units are for changing rate of acceleration (Speed up and slow)
4. Sketch your Prediction 3-2 on the axes below.



Velocity is constant  
 so  $a = 0$ ,  
 $F = 0$



$0 = a$



$0 = F$

# Lab 4 Physics Answers Combining Forces

**Y Pai**



## Lab 4 Physics Answers Combining Forces:

RealTime Physics: Active Learning Laboratories, Module 1 David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 2011-11-15 The authors of RealTime Physics Active Learning Laboratories Module 1 Mechanics 3rd Edition David Sokoloff Priscilla Laws and Ron Thornton have been pioneers in the revolution of the physics industry In this edition they provide a set of labs that utilize modern lab technology to provide hands on information as well as an empirical look at several new key concepts They focus on the teaching learning issues in the lecture portion of the course as well as logistical lab issues such as space class size staffing and equipment maintenance Issues similar to those in the lecture have to with preparation and willingness to study RealTime Physics David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 1999 This computer based lab manual contains experiments in mechanics thermodynamics E M and optics using hardware and software designed to enhance readers understanding of calculus based physics concepts It uses an active learning cycle including concept overviews hypothesis testing prediction making and investigations **Deep Learning in Introductory Physics** Mark J. Lattery, 2016-10-17 Deep Learning in Introductory Physics explores how students learn physics in a model centered classroom It addresses the coherence vs fragmentation debate and suggests that deep science learning is regressive and revolutionary Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Publications** United States. National Bureau of Standards, 1991 **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.), 1991 **Energy Research Abstracts** ,1991 *Air Force Research Resumés* ,1963 *Louisiana Planter and Sugar Manufacturer* ,1924 **American School Board Journal** ,1902 **The American School Board Journal** William George Bruce, William Conrad Bruce, 1901 *American Men of Science* ,1949 *American Men and Women of Science* ,1972 Brown's Directory of American Gas Companies. Gas Statistics ,1929 *Government Reports Announcements* ,1974-02-22 Modern Sanitation and Building Maintenance ,1957 **American Laboratory** ,2007 **General Catalogue Issue** Massachusetts Institute of Technology, 1971 **Stanford Bulletin** ,2003 **Chemical Engineering Catalog** ,1922

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