

# Forces Ranking Tasks

Key

Answer the following on a separate page.



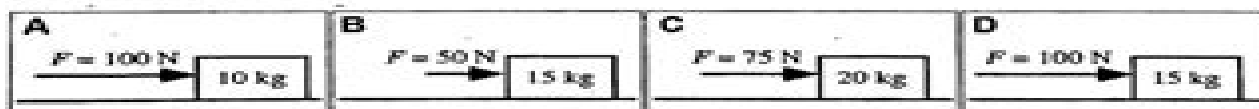
1. Various packages with different masses are moving on a constant-speed conveyor belt, as shown above. At the instant shown below, all packages have the same constant velocity of 2 m/s directed to the right. The packages do not slip on the belt. All masses are given in the diagram in terms of  $M$ , the mass of the smallest package. Rank the magnitude of the net force on each package from greatest to least. Explain your reasoning.

$A = B = C = D = E$  zero net force for all bc acceleration = 0



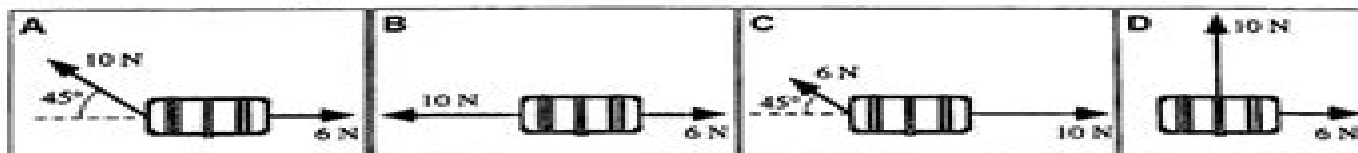
2. All the trailers and cars shown are identical, but the boat trailers have different loads. In each case, the car and boat trailer are moving at the constant speed shown above. Rank the magnitude of the net force on each boat trailer from greatest to least. Explain your reasoning.

$A = B = C = D$  constant speed  $\rightarrow$  no acceleration  $\rightarrow$  zero net force.



3. Various similar boxes are being pushed for 10 m across a floor by a net horizontal force as shown above. The mass of the boxes and the net horizontal force for each case are given in the indicated figures. All boxes have the same initial velocity of 10 m/s to the right. Rank the acceleration of the boxes from greatest to least. Explain your reasoning.

$F_{\text{net}} = ma$   
 $a = \frac{F_{\text{net}}}{m}$   
 A)  $\frac{100}{10} = 10$  B)  $\frac{50}{15} = 3.3$  C)  $\frac{75}{20} = 3.75$  D)  $\frac{100}{15} = 6.7$   $A > D > C > B$



4. Identical treasure chests (shown from above) each have two forces acting on them. All chests are at rest. Rank the speed of the treasure chest after 2 seconds from greatest to least. Explain your reasoning.

The chest with the greater acceleration will reach the greater speed in same time

$a = \frac{F_{\text{net}}}{m}$   
 same for all

A)  $\Sigma F_x = 6 - 10 \cos 45 = -1$   
 $\Sigma F_y = 10 \sin 45$   
 $F_{\text{net}} = 7$

B)  $F_{\text{net}} = 6 - 10 = -4$   
 $D > C = A > B$

C)  $\Sigma F_x = 10 - 6 \cos 45$   
 $\Sigma F_y = 6 \sin 45$   
 $F_{\text{net}} = 7$

D)  $F_{\text{net}} = \sqrt{6^2 + 10^2}$   
 $F_{\text{net}} = 11.7$

# Ranking Tasks In Physics

**Amy Johnson**



## Ranking Tasks In Physics:

*Ranking Task Exercises in Physics* Thomas L. O'Kuma, David P. Maloney, Curtis J. Hieggelke, 2000 Those who have used Ranking Tasks have found that they frequently elicit students natural ideas rather than a memorized response about the behavior of a given physical system In addition asking students to consider the same situations in a variety of ways often helps them begin to correct any misconceptions they may have When students realize that they have given different answers to variations of the same question they begin to think about why they responded as they did in each case This in turn prompts them to consider which responses they believe in more strongly and why The basic structure of a Ranking Task comprise four elements a description of the physical situation including any constraints and the basis for ranking different arrangements a set of figures showing the different arrangements of the situation to be compared a place to record the ranking of each variation a place to explain the reason for each ranking choice A CD ROM in the back of the book provides each Ranking Task in a pdf file for ease of use in printing and copying for non commercial classroom needs

**Ranking task exercises in physics (student edition).** Thomas L. O'Kuma, 2008 **Ranking task exercises in physics (student edition).** Thomas L. O'Kuma, 2008 **The Changing Role of Physics Depts. in Modern Universities** Redish, John Ridgen, 1998-07-09

Annotation The proceedings of the August 1996 conference arranged in two volumes focus on the physics baccalaureate as passport to the workplace physics courses in service of students in other sciences and engineering and the physics department's responsibility in pre and in service education of teachers Issues include the changing goals of physics courses the impact of physics education research on instruction and applications of modern technologies Volume 1 contains the presentations and poster papers volume 2 contains description of 18 sample classes No index Annotation c by Book News Inc Portland Or

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calculus based physics courses Assessments were given both pre and post in order to calculate a class's percent gain Although students did not seem to enjoy or appreciate these types of tasks at the beginning analysis of the percent gain did show a remarkable increase in the conceptual concepts that were assessed due to the physics ranking tasks

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**The Pendulum** Michael Matthews, Colin F. Gauld, Arthur Stinner, 2006-01-19 The pendulum is a universal topic in primary and secondary schools but its full potential for learning about physics the nature of science and the relationships between science mathematics technology society and culture is seldom realised Contributions to this 32 chapter anthology deal with the science history methodology and pedagogy of pendulum motion There is ample material for the richer and more cross disciplinary treatment of the pendulum from elementary school to high school and through to advanced university classes Scientists will value the studies on the physics of the pendulum historians will appreciate the detailed treatment of Galileo Huygens Newton and Foucault's pendulum investigations psychologists and educators will learn from the papers on Piaget teachers will welcome the many contributions to pendulum pedagogy All readers will come away with a new awareness of the importance of the pendulum in the foundation and development of modern science and for its centrality in so many facets of society and culture

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*Teaching and Learning the West Point Way* Morten G. Ender, Raymond A. Kimball, Rachel M. Sondheimer, Jakob C. Bruhl, 2021-05-12 Teaching and Learning the West Point Way is a unique compendium of the best teaching and learning practices from one of the most celebrated and storied undergraduate teaching and learning environments and institutions in America the United States Military Academy at West Point New York USA Drawing on the broad academic curriculum that the students follow at West Point in addition to military leadership character development and competitive athletics this book describes proven and effective undergraduate pedagogy across a number of academic disciplines Case studies strategies and techniques empirical teaching and learning research results syllabi and assignments developed and deployed by West Point faculty are included which faculty in other higher education institutions can adapt and apply to their own programs and courses An accompanying companion website provides additional syllabi course guides lesson plans PowerPoint activities and lecture slides as well as videos of the editors and authors discussing how key concepts in their chapters might be applied in different teaching and learning contexts This is an opportunity to gain an in depth insight into the programs and practices inside one of the world s premier leadership development and educational institutions It should appeal to new and experienced faculty and administrators interested in course creation and syllabus design across a wide range of disciplines in educational institutions and military academies across the globe

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