

Forces Ranking Tasks

Key

Answer the following on a separate page.



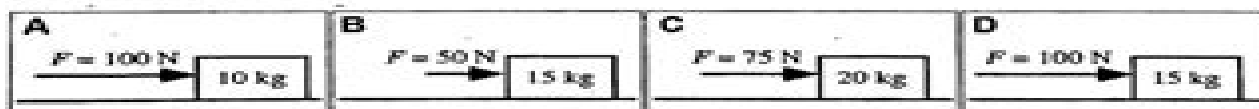
1. Various packages with different masses are moving on a constant-speed conveyor belt, as shown above. At the instant shown below, all packages have the same constant velocity of 2 m/s directed to the right. The packages do not slip on the belt. All masses are given in the diagram in terms of M , the 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



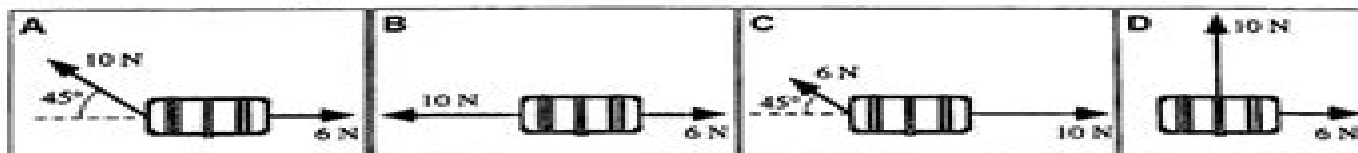
2. All the trailers and cars shown are identical, but the boat trailers have different loads. In each case, the car and boat trailer are moving at the constant speed shown above. Rank the magnitude of the net force on each boat trailer from greatest to least. Explain your reasoning.

$A = B = C = D$ 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

SJ Ball



Ranking Tasks In Physics:

Reviewing **Ranking Tasks In Physics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Ranking Tasks In Physics**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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