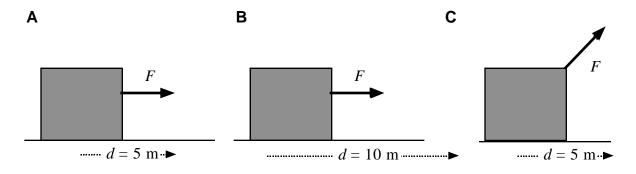
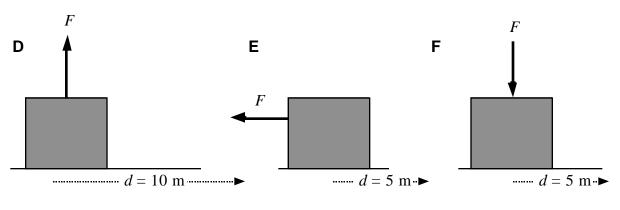
Equal Forces on Boxes—Work Done on Box 68

In the figures below, identical boxes of mass 10 kg are moving at the same initial velocity to the right on a flat surface. The same magnitude force, F, is applied to each box for the distance, d, indicated in the figures.

Rank these situations in order of the work done on the box by F while the box moves the indicated distance to the right.





Greatest 1_____ 2____ 3____ 4___ 5____ 6___ Least

Or, all of the boxes experience the same work. _____ Please carefully explain your reasoning.

How sure were you of your ranking? (circle one)

 Basically Guessed
 Sure
 Very Sure

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

⁶⁸ E. Eckard