## 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.
A

B
C


Greatest 1 $\qquad$ 2 $\qquad$ 3 $\qquad$ 4 $\qquad$ 5 $\qquad$ 6 $\qquad$ Least

Or, all of the boxes experience the same work. $\qquad$
Please carefully explain your reasoning.

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

Basically Guessed
1

[^0]
[^0]:    ${ }^{68}$ E. Eckard

