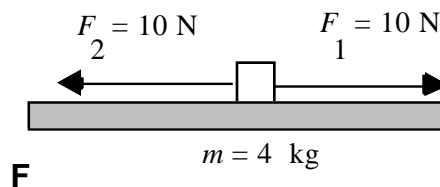
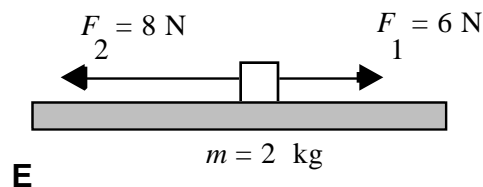
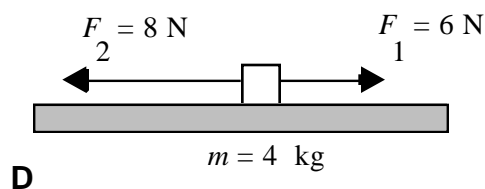
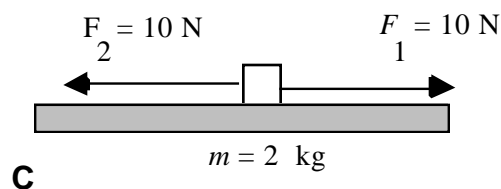
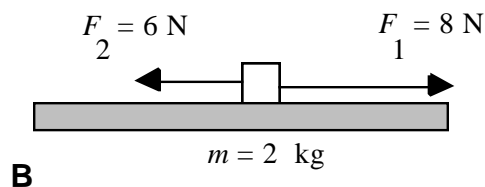
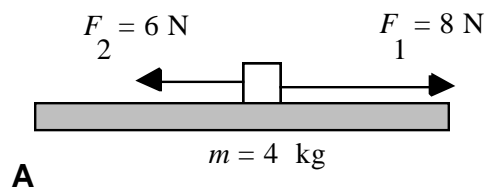


## Forces on Objects on Rough Surfaces—Speed Change <sup>35</sup>

Two forces act on identical objects that are on rough surfaces, as shown below. The forces of maximum static and kinetic friction for each case are both 2 N. Rank these situations from greatest change in speed to least change in speed. All objects start at rest.



Greatest 1\_\_\_\_\_ 2\_\_\_\_\_ 3\_\_\_\_\_ 4\_\_\_\_\_ 5\_\_\_\_\_ 6\_\_\_\_\_ Least

Or, the change in speed is the same in all cases. \_\_\_\_\_

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

<sup>35</sup> R. Krupp