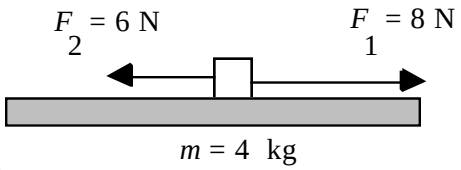
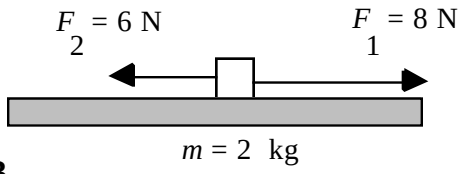
Forces on Objects on Smooth Surfaces—Speed Change [33]

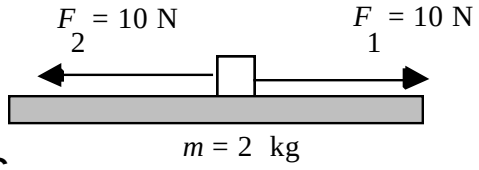
Two forces act on an object that is on a frictionless surface, as shown below. Rank these situations from greatest change in speed to least change in speed.



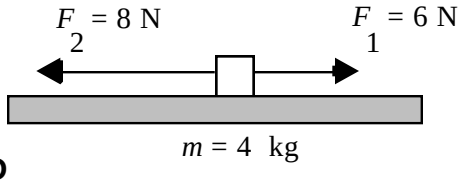
A



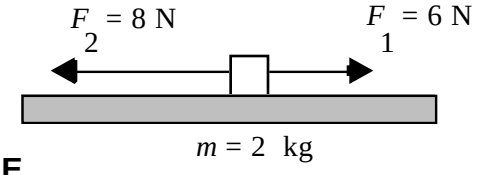
B



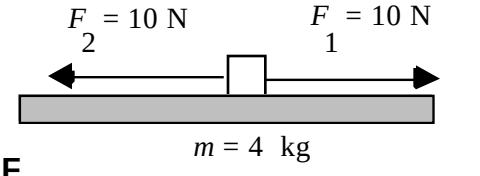
C



D



E



F

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

Or, the change in speed is the same in all cases. _____

Or, the speed does not change for any of these 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

[33] R. Krupp