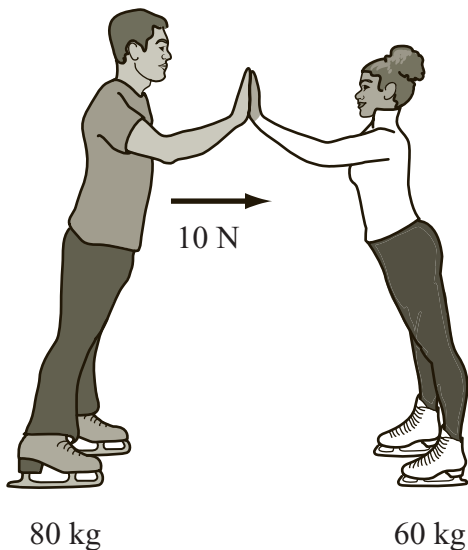


The diagram below shows an 80 kg ice skater applying a force of 10 N to a 60 kg ice skater.



Which statement best describes the results of applying the 10 N force?

- A. The skaters will not move at all.
- B. The skaters will accelerate away from each other at the same rate.
- C. The skaters will accelerate away from each other, but the 60 kg skater will accelerate at a faster rate.
- D. The 60 kg skater will accelerate away from the 80 kg skater, and the 80 kg skater will remain stationary.