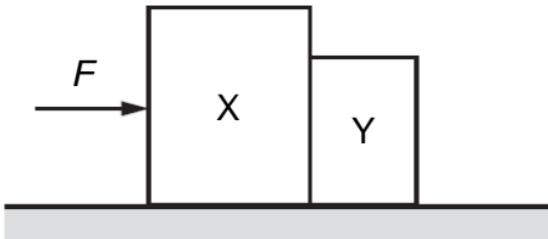


- 8 A single horizontal force  $F$  is applied to a block X which is in contact with a separate block Y, as shown.



The blocks remain in contact as they accelerate along a horizontal frictionless surface. X has a greater mass than Y.

Which statement is correct?

- A The acceleration of X is equal to force  $F$  divided by the mass of X.
- B The force that X exerts on Y is equal to  $F$ .
- C The force that X exerts on Y is less than  $F$ .
- D The force that X exerts on Y is less than the force that Y exerts on X.