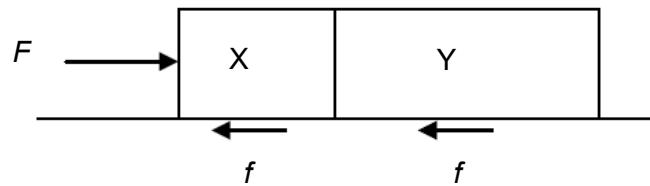


- 4 Two blocks, X and Y, of masses m and $2m$ respectively, are accelerated along a rough surface by a force F applied to block X. The magnitude of the frictional force experienced by each of the block is f .



What is the magnitude of the force exerted by block Y on block X?

A $\frac{1}{3}(F-2f)$

B $\frac{1}{3}(F-f)$

C $\frac{1}{3}(2F-f)$

D $\frac{2}{3}(F-f)$