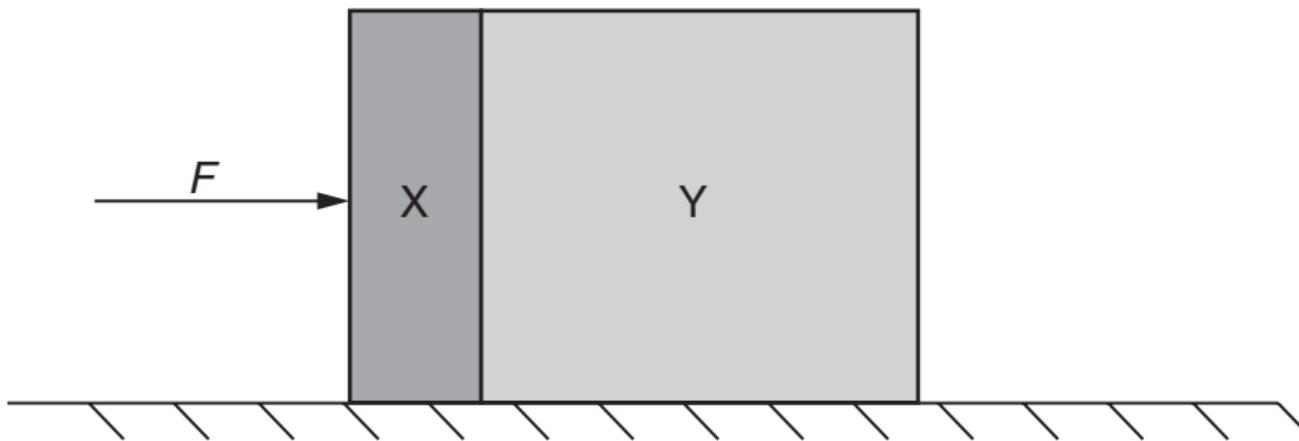


- 10 Two blocks X and Y, of masses  $m$  and  $3m$  respectively, are accelerated along a smooth horizontal surface by a force  $F$  applied to block X as shown.



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

- A  $\frac{F}{4}$       B  $\frac{F}{3}$       C  $\frac{F}{2}$       D  $\frac{3F}{4}$