

- 6 Three blocks X, Y and Z of masses m , $2m$ and $3m$ respectively, are accelerated along a smooth horizontal surface by a force F applied to block X as shown in the diagram below.



What is the force exerted on Y by X?

A $\frac{1}{6} F$

B $\frac{1}{2} F$

C $\frac{5}{6} F$

D F

[Turn over