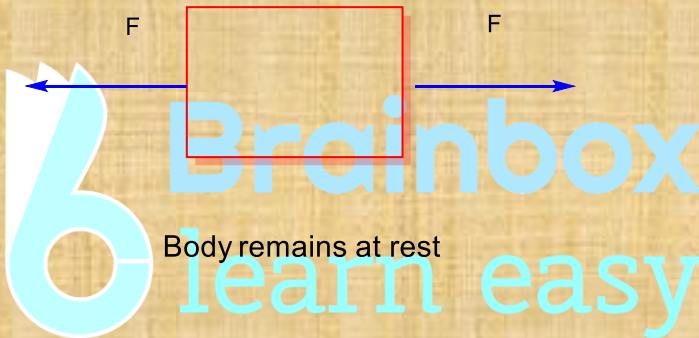
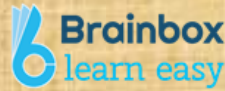


Chapter 9

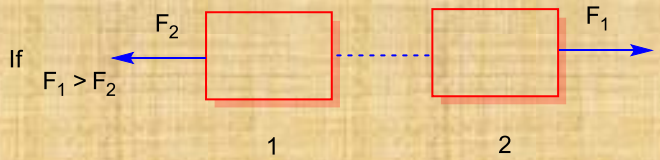
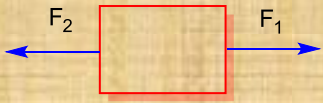
FORCE AND LAWS OF MOTION

Balanced and Unbalanced forces:

When two equal forces are applied in opposite directions, they cannot change the state of rest or uniform motion such forces are called Balanced forces.

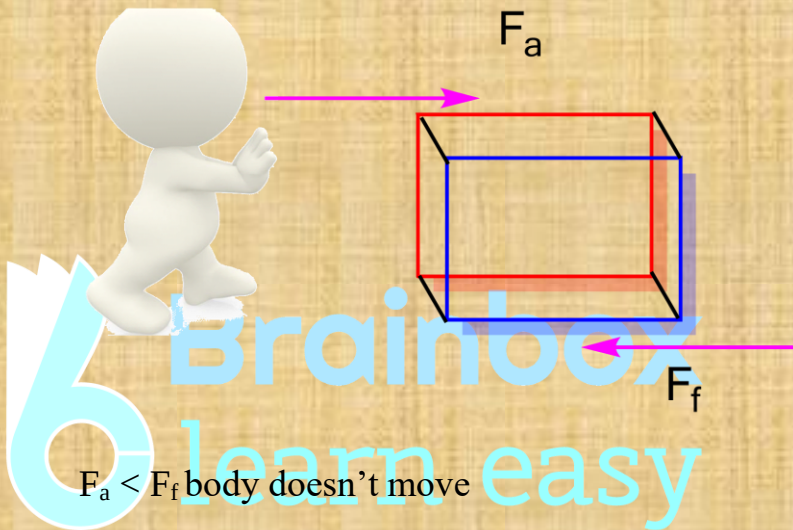


If the forces are unequal, then body moves along the direction of greater force. Such forces are called Unbalanced forces.

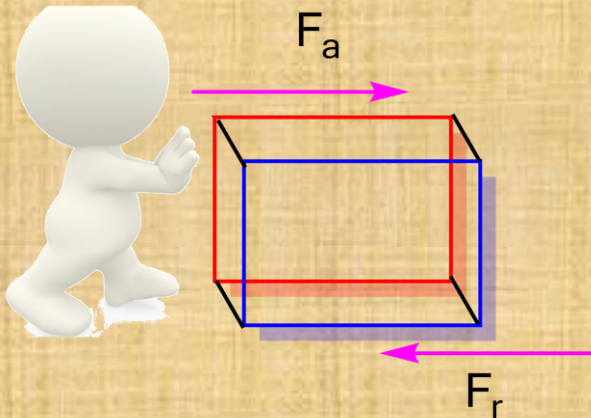


Ex. When a box is lying on the ground if people are pushing it the following cases arise.

(1) Box does not move if applied force is less than frictional force.



(2) If $F_a = F_f$, then body tends to move,



(3) If $F_a > F_r$ body moves,

