

Problem 1: A child is pulling a box of mass  $10\text{ kg}$ . What is the standard or normal force acting and also calculate the frictional force if the coefficient of friction  $\mu$  is  $0.3$ , ( $g = 9.8\text{ m/s}^2$ )

Problem 2: A boy with body mass  $40\text{ kg}$  is slipping on the frost. If the coefficient of friction acting is  $0.45$ . Find the frictional force acting between him & frost layer?  
( $g = 9.8\text{ m/s}^2$ )

Problem 3: A girl is pulling an object with mass  $100\text{ g}$ . The frictional force acting between ~~her~~ <sup>the</sup> object & ground is  $49\text{ N}$ . Find out the coefficient of friction of the surface.