



Friction is created whenever...

On the microscopic level...

Friction is given by the equation:



Where:  
 $F_N =$   
 $=$   
 $\mu =$   
 $=$   
 $=$

Static Friction:

Kinetic Friction:

**Friction<sub>static</sub>**    **Friction<sub>kinetic</sub>**

$\mu_{static}$      $\mu_{kinetic}$

Ex: A 3.75 kg block is pushed along a tabletop with a force of 45.0N. The coefficient of friction is 0.65.

a) Find the force of friction.

b) Find the acceleration.