

Name _____

Period _____

Force of Friction:

Depends on

A)

B)

Does not Depend on

I)

II)

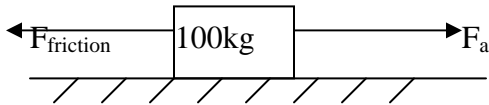
Equations

a) sliding friction: $F_k = \mu_k F_n$

b) Non sliding Friction: $F_s \leq \mu_s F_n$

Example; $\mu_k = .35$, $\mu_s = .4$

$F_k = 350 \text{ N}$ $F_{s,max} = 400 \text{ N}$



Initial velocity = 0 m/s

Force applied (F_a)	Type of friction (kinetic or static)	Force of Friction	ΔF	Type of Motion
1) 56 N				
2) 350 N				
3) 400 N				
4) 401 N				
5) 450 N				
6) 350 N				
7) 349 N				(still moving)
8) 0 N				(still moving)
9) 0 N				(stops)
10) 20 N				