**A** **car can go from Vo to Vf in T, what force do the car’s tires apply to the road**

**Vf / T \* M**  
**A pulley has a M gram mass hanging on the left side, and a m gram mass hanging on the right side. What is the downward acceleration of the pulley on the left?**

**(M\*g – m\*g) / (M+m)**

**It takes N Newtons of force to push a n Newton grocery cart at constant speed on level ground. What is the coefficient of kinetic rolling friction**

**n = N / f**

**A m kg crate slides down a O degree ramp at constant velocity. How much is the frictional force of the ramp on the crate**

**mgcosOtanO**

**A geology student pushes a boulder with a N force. Cf = #, force of static friction?**

**N**

**How fast will a M kg crate accelerate as it slides down a O degree ramp? Cf = #**

**image2.png**

**A M kg person is standing in a elevator, decelerates at V, what is the force on floor as it ascents**

**Mg - ma**

**A M kg rock sits still on a O degree hill. Normal Force?**

**mgcosO**

**A M kg person elevator moving downward, slows down at V, force as it brakes on its way down**

**Mg + ma**

**Two different mass boxes hang on either end of a cable wrapped over an ideal pulley?**

**(Heavy box \* 10 – other box \* 10) / (total mass)**