

Name: _____
Period: _____

Newton's Laws and Forces Review

- Moving? Yes, No, or Maybe?
 - An object at constant speed? *Maybe (could be 0)*
 - An object with a net force? *Yes if $F_{net} \neq 0$, then $a \neq 0$. Must speeding up.*
 - An object with friction? *Maybe. $F_s \neq 0$ $F_f \neq 0$ yes*
 - An object at equilibrium? *Maybe - could be cruise control*
 - An object with a force acting on it? *Maybe - could have another force on it.*
 - An object with static friction greater than an applied force? *No*
 - At rest on a table? *No*

- At Equilibrium? Yes, No, or Maybe?
 - An object with multiple force acting on it? *Maybe - could be same dir.*
 - A projectile at the top of its path (when $v_y = 0$)? *No $a_y = -9.8$*
 - An object with no net force? *$F_{net} = 0$ $a = 0$ Yes.*
 - An object slowing down? *No*
 - An object with friction? *Maybe - only if $F_f = F_{applied}$*
 - An object speeding up? *No, has an accel.*
 - An object at constant speed? *$\Delta v = 0$, $a = 0$, $F_{net} = 0$ Yes.*

- Find the weights for these objects: A. A 2 kg object: $P_w = 20\text{ N}$; B. A 30 N object: $P_w = 30\text{ N}$

- What is the Normal Force on an object suspended by a rope? *zero D.D.D.*

- A car is *started* going down a hill. The force of gravity is pulling it down the hill and the force of friction of its brakes is pulling it up the hill. If these two forces are equal,
 - Is the car at equilibrium? *yes 0*

- Is the car accelerating? *No*
- Is the car moving? *Maybe could be stopped.*

- What is the force of gravity on a 10 kg object? *100 N $a = -9.8\text{ m/s}^2$*

- What is the force of gravity on a 1 kg object? *10 N $a = -9.8\text{ m/s}^2$*

- A 4 kg object moving 24 m/s slows to 4 m/s in 20 meters.

- What kind of friction was this? *F_k*
- Find the force that caused the object to slow down.

$$m = 4\text{ kg} \quad a = \text{---} \quad v_f^2 = v_i^2 + 2ax$$

$$v_i = 24$$

$$v_f = 4$$

$$\Delta x = 20$$

$$16 = 576 + 2(20)a$$

$$-560 = 40a$$

$$a = \frac{-560}{40} = -14\text{ m/s}^2$$

$$F = ma = 4(-14) = -56\text{ N}$$

- Find the coefficient of friction for this surface.

$$F_f = \mu F_N$$

$$\mu = \frac{F_f}{F_N} = \frac{56}{40} = 1.4$$

- A 60 kg person is sliding down a rope at constant speed. Find the force of friction of the rope acting on the person.

if at constant speed

$$a = 0, \Sigma F = 0$$



$$\Sigma F_f - F_w = m(0)$$

$$F_f = F_w = 600\text{ N}$$

- If $M_1 = 4\text{ kg}$ and $M_2 = 8\text{ kg}$, find the acceleration of the system if $\mu_k = 0.2$.

$$F_k = 0.2(40) = 8\text{ N}$$

$$\Sigma F_1 = m_1 a$$

$$-8 + T = 4a$$

$$\Sigma F_2 = m_2 a$$

$$80 - T = 8a$$

$$80 - (4a + 8) = 8a$$

$$80 - 4a - 8 = 8a$$

$$72 = 12a$$

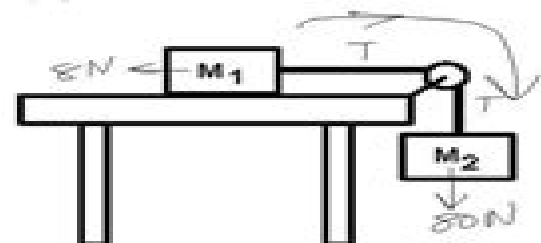
$$6a = 2$$

you could put 'a' back into one of the above equations to find T.

** solve for T in 1 eq., subst. into other.*

$$T = 4a + 8$$

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