

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 ~~going~~ <sup>started</sup> 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  $0^{\circ}$*

- 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.

$m = 4\text{ kg}$   $a = \text{---}$   $v_f^2 = v_i^2 + 2ax$   $a = \frac{-560}{40} = -14\text{ m/s}^2$   
 $v_i = 24$   $16 = 576 + 2(20)a$   $F = ma = 4(-14) = -56\text{ N}$   
 $v_f = 4$   $16 = 576 + 2(20)a$   
 $ax = 20$   $-560 = 40a$

- 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  $\mu_k = 0.2$ .

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

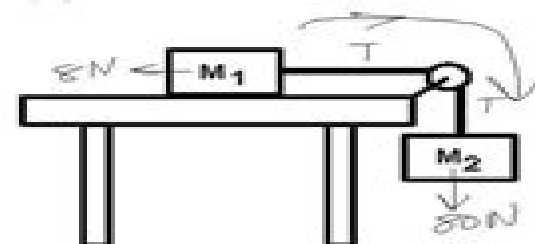
$\Sigma F_1 = m_1 a$   $\Sigma F_2 = m_2 a$   
 $-8 + T = 4a$   $80 - T = 8a$

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

$T = 4a + 8$

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



# Forces Answers C Stephen Murray

**Patrick Vollmar**



## **Forces Answers C Stephen Murray:**

**Air Force** ,1943     A Failure of Initiative, Supplementary Report and Document Annex..., March 16, 2006, 109-2 House Report 109-396 ,2006     The Army-Navy-Air Force Register ,1958     A Failure of Initiative United States. Congress. House. Select Bipartisan Committee to Investigate the Preparation for and Response to Hurricane Katrina,2006 NOTE NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT OVERSTOCK SALE Significantly reduced list price while supplies last

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**Congressional Record** United States. Congress,2000 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the

United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

Murray's Illustrated Bible Dictionary William Coleman Piercy, 1909      Air University Periodical Index , 1962      *Army, Navy, Air Force Journal and Register* , 1924      *Army-Navy-Air Force Register and Defense Times* , 1903      *Another Kind of Justice* Chris Madsen, 2011-11-01 Another Kind of Justice is the first historical survey of Canadian military law providing insights into military justice in Canada the purpose of military law and the level of legal professionalism within the Canadian military Drawing on a wide range of materials Chris Madsen traces the development of military law from 1867 to 1997 After delving into the British roots of Canadian military law he brings his discussion up to date with analysis of recent sexual discrimination cases and the Somalia inquiry He explains how the law has served a strictly functional purpose in maintaining discipline and demonstrates how it claims its legitimacy and distinct status in relation to civil law It becomes clear that military law has responded to pragmatic needs in a reactive rather than a planned manner Another Kind of Justice describes the statutes and regulations that govern Canada's armed forces the institutions responsible for overseeing military law and how knowledge about military law is disseminated Madsen concludes that longstanding organizational problems and training deficiencies bear some of the responsibility for the unfortunate behaviour of Canadian soldiers in Somalia      **The Nature of War in the Information Age** David J. Lonsdale, 2004 Will the information age witness a transformation in the nature of war Putting the notion to the test the author uses a range of contexts to assess whether the Clausewitzian nature of war will retain its validity      Monthly Labor Review , 1984 Publishes in depth articles on labor subjects current labor statistics information about current labor contracts and book reviews      Telephone Directory United States. Department of Defense, 1982 Each issue includes a classified section on the organization of the Dept      Army, Navy, Air Force Journal & Register , 1942      **The Air Force Comptroller** , 1981

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