

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_f*
 - Find the force that caused the object to slow down.

$m = 4\text{ kg}$
 $v_i = 24$
 $v_f = 4$
 $\Delta x = 20$

$v_f^2 = v_i^2 + 2a\Delta x$
 $16 = 576 + 2(20)a$
 $-560 = 40a$
 $a = -14\text{ m/s}^2$

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

- Find the coefficient of friction for this surface.

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

- 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 $\mu_k = 0.2$.

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

$$\Sigma F_1 = m_1 a$$

$$-8 + T = 4a$$

$$80 - T = 8a$$

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

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

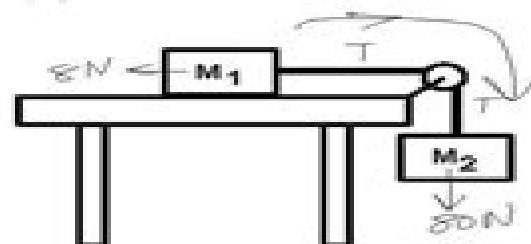
$$72 = 12a$$

$$6a = 2$$

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

$$T = 4a + 8$$

you could put a back into one of the above equations to find T.



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Padhraic Smyth



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Murray & Nadel's Textbook of Respiratory Medicine E-Book V. Courtney Broaddus, Joel D. Ernst, Talmadge E. King Jr, Stephen C. Lazarus, Kathleen F. Sarmiento, Lynn M. Schnapp, Renee D. Stapleton, Michael B. Gotway, 2021-05-28 Known for its clear readability thorough coverage and expert authorship Murray advanced ultrasound applications and procedures interventional pulmonology immunotherapy lung cancer targeted therapy outbreaks pandemics and bioterrorism point of care ultrasound use of high flow oxygen and more Includes extensively reorganized sections on basic science pleural disease and sleep with new chapters and approaches to the topics Features more than 1 450 anatomic algorithmic and radiologic images 400 are new including CT PET MR and HRCT plus extensive online only content 200 procedural and conceptual videos plus audio clips of lung sounds Brings you up to date with the latest respiratory drugs mechanisms of action indications precautions adverse effects and recommendations with increased emphasis on algorithms to illustrate decision making Enhanced eBook version included with purchase Your enhanced eBook allows you access to all of the text figures reporting templates and references from the book on a variety of devices Promoting Equity, Cooperation and Innovation in the Fields of Transboundary Waters and Natural Resources Management Stephen C. McCaffrey, John S. Murray, Melvin Woodhouse, 2017-02-20 Promoting Equity Cooperation and Innovation in the Fields of Transboundary Waters and Natural Resources Management honours the memory and legacy of Dr David J H Phillips an extraordinary scientist consultant and friend of the editors and contributors He was a scientist of exceptional quality dedicated to the practical study of aquatic environments be they marine freshwater or virtual This volume contains excerpts from his meticulously researched work from a wide range of settings globally Colleagues essays provide insights to a man who lived life to the utmost worked to the highest professional standards and had a unique gift in challenging situations to generate understanding and practical responses through his curiosity remarkable ingenuity and sheer hard work His work opens many new paths of research and continues to inspire scientists and researchers in the fields of marine biology and pollution fresh water issues and conflict over transboundary water resources **Statistical Network Analysis: Models, Issues, and New Directions** Edoardo Airoldi, 2007-07-20 This book constitutes the thoroughly refereed post proceedings of the International Workshop on Statistical Network Analysis Models Issues and New Directions held in Pittsburgh PA USA in June 2006 as associated event of the 23rd International Conference on Machine Learning ICML 2006 It covers probabilistic methods for network analysis paying special attention to model design and computational issues of learning and inference **Commerce Business Daily**, 1999 **Official Gazette of the United States Patent and Trademark Office**, 1993 ICSM '88, 1988 **Commercial Fertilizer and Plant Food Industry**, 1961 **Marconi's International Register**, 1997 Nuclear Science Abstracts, 1966 **Working Mother**, 2000-10 The magazine that helps career moms balance their personal and professional lives **Understanding Computers** Grace Murray Hopper, Steven L. Mandell, 1984 **List of Bureau of**

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