NEWTON'S LAWS PRACTICE PROBLEMS

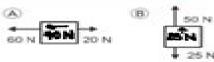
Answer the following questions in your <u>science notebook</u>. Show all of your work for math problems (equation, plug-in numbers, box answer). Restate the question in your answer for answers that you explain in words.

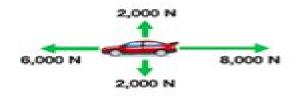
NET FORCE & NEWTON'S 157 LAW OF MOTION

 Describe the motion of the race car shown in the graphic to the right. Assume the car is moving forward. Is it speeding up or slowing down?



Find the net force on each box.

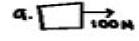




You weigh a bear by making him stand on four scales as shown. Draw a free-body diagram showing all the forces acting on the bear. If his weight is 1,500 newtons, what is the reading on the fourth scale?



- 4. A bowling ball has a mass of 6 kilograms. A tennis ball has a mass of 0.06 kilogram. How much inertia does the bowling ball have compared to the tennis ball?
- 5. Make a free-body diagram of someone pushing a refrigerator that shows:
 a. A net force of 100 N with the refrigerator being pushed to the right.
 b. The refrigerator in equilibrium.



NEWTON'S 2ND LAW OF MOTION

- 6. A 100 kg bag of sand has a weight on 100 N. When dropped its acceleration is what?
- F=ma (00H-(00K4)a 0-109H/100 m 0-1 m/5¹)

 7. What is the net force required to give an automobile of mass 1600 kg an acceleration of 4.5 m/s²?

 F=ma F=(0.00 c5)(4.5 m/s²) F=1,100 N
- 8. What is the acceleration of a wagon of mass 20 kg if a horizontal force of 64 N is applied to it? (ignore friction)

 F-mq L4N-(2015)0 4-2015 4-32 5-5
- 9. What is the mass of an object that is experiencing a net force of 200 N and an acceleration of 500 m/s²? 200 m(500 m/s²) m = 0.4 kg
- 10. During a test crash, an air bag inflates to stop a dummy's forward motion. The dummy's mass is 75 kg. If the net force on the dummy is 825 N toward the rear of the car, what is the dummy's deceleration?

Newtons Law Practice Problems Answer Key

Greg Jacobs, Joshua Schulman

Newtons Law Practice Problems Answer Key:

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make available for college teachers and students samples of important and realistic applications of mathematics which can be covered in undergraduate programs The goal is to provide illustrations of how modem mathematics is actually employed to solve relevant contemporary problems Although these independent chapters were prepared primarily for teachers in the general mathematical sciences they should prove valuable to students teachers and research scientists in many of the fields of application as well Prerequisites for each chapter and suggestions for the teacher are provided Several of these chapters have been tested in a variety of classroom settings and all have undergone extensive peer review and revision Illustrations and exercises are included in most chapters Some units can be covered in one class whereas others provide sufficient material for a few weeks of class time Volume 1 contains 23 chapters and deals with differential equations and in the last four chapters problems leading to partial differential equations Applications are taken from medicine biology traffic systems and several other fields The 14 chapters in Volume 2 are devoted mostly to problems arising in political science but they also address questions appearing in sociology and ecology Topics covered include voting systems weighted voting proportional representation coalitional values and committees The 14 chapters in Volume 3 emphasize discrete mathematical methods such as those which arise in graph theory combinatorics and networks The Six Core Theories of Modern Physics Charles F. Stevens, 1995 This text presents a summary of the basic theoretical structures of classical mechanics electricity and magnetism quantum mechanics statistical physics special relativity and modern field theories Officer Candidate Tests For Dummies Jane R. Burstein, Carolyn C. Wheater, 2011-05-09 The easy way to prepare for officer candidate tests Want to ace the AFOQT ASVAB or ASTB Help is here Officer Candidate Tests For Dummies gives you the instruction and practice you need to pass the service specific candidate tests and further your military career as an officer in the Army Air Force Navy Marine Corps or Coast Guard Packed with practice questions and easy to follow information Officer Candidate Tests For Dummies gives you a comprehensive review of all subjects covered on the tests an explanation of the test formats and everything you need to understand and conquer the exams Includes practice exams for each test More subject matter instruction than any other book on the market Covers all of the latest updates to the exams Whether you re aspiring to become an officer in the military by attending a service academy ROTC or Officer Candidate School or are already in the military and working to advance your career Officer Candidate Tests For Dummies has you covered An Introduction to **Mechanics** Daniel Kleppner, Robert Kolenkow, 2014 This second edition is ideal for classical mechanics courses for first and second year undergraduates with foundation skills in mathematics Fundamentals of Physics, Volume 1 David Halliday, Robert Resnick, Jearl Walker, 2017-12-11 The first volume of a two volume text that helps students understand physics concepts and scientific problem solving Volume 1 of the Fundamentals of Physics 11th Edition helps students embark on an understanding of physics This loose leaf text covers a full range of topics including measurement vectors motion and force It also discusses energy rotation equilibrium gravitation and oscillations as well temperature and heat The First and

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Improving Instruction of Motion and Energy
Through a Constructivist Approach and Technology Integration Sandra Lum Erwin, 2004

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