

Forces, Magnitude & Direction

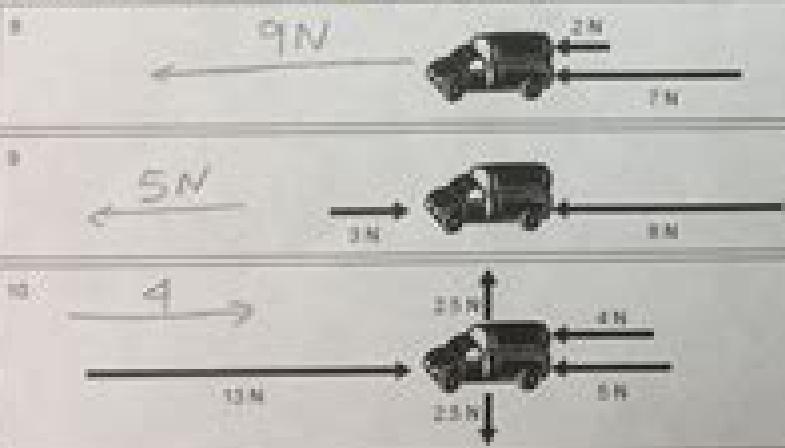
Directions: Fill in the correct answer.

1. A FORCE is a push or a pull.
2. The NET FORCE is the combination of all of the forces acting on an object.
3. The unit used to measure force is the NEWTON.
4. When two or more forces act on an object in the same direction, the forces balance (combine to make zero).
5. When two forces acting in opposite directions combine, the net force is in the same direction as the larger (or positive) force.

Directions: Give the magnitude and direction of the forces shown below.



Directions: Draw and label the net force on each diagram below.



Identifying Forces

Identify the forces in each of the following situations.
Then describe the effect of the forces.



Push - The ball is in motion because the friction is less than the force of inertia.



Push - Push push and the friction is less than the force of inertia so the box is pushed.



Push - The long push is less than the friction so the piano is pushed.



Pull - Magnet pulls on the nail because there are more atoms pulling on the nail.



Pull - Magnet pulls on the nail because there are more atoms pulling on the nail.



Pull - Magnet pulls on the nail because there are more atoms pulling on the nail.



Push - For other push the wall stays in place.
Push - The wall stays in place because the friction is less than the force of inertia.
Push - Push the wall stays in place because the friction is less than the force of inertia.



Push - Leaf falls down because the friction is less than the force of gravity.

Science Review Forces Section Answer Key

DJ Losen

Science Review Forces Section Answer Key:

United States Code: Title 10: Armed forces [sections] 1431-7921, 2013 Preface 2012 edition The United States Code is the official codification of the general and permanent laws of the United States The Code was first published in 1926 and a new edition of the code has been published every six years since 1934 The 2012 edition of the Code incorporates laws enacted through the One Hundred Twelfth Congress Second session the last of which was signed by the President on January 15 2013 It does not include laws of the One Hundred Thirteenth Congress First session enacted between January 3 2013 the date it convened and January 15 2013 By statutory authority this edition may be cited U S C 2012 ed As adopted in 1926 the Code established *prima facie* the general and permanent laws of the United States The underlying statutes reprinted in the Code remained in effect and controlled over the Code in case of any discrepancy In 1947 Congress began enacting individual titles of the Code into positive law When a title is enacted into positive law the underlying statutes are repealed and the title then becomes legal evidence of the law Currently 26 of the 51 titles in the Code have been so enacted These are identified in the table of titles near the beginning of each volume The Law Revision Counsel of the House of Representatives continues to prepare legislation pursuant to 2 USC 285b to enact the remainder of the Code on a title by title basis into positive law The 2012 edition of the Code was prepared and published under the supervision of Ralph V Seep Law Revision Counsel Grateful acknowledgment is made of the contributions by all who helped in this work particularly the staffs of the Office of the Law Revision Counsel and the Government Printing Office John A Boehner Speaker of the House of Representatives Washington D C January 15 2013 Page VII Discovering Science Through Inquiry: Forces and Motion Kit Kelli Allen, 2009-11-10 The Discovering Science through Inquiry series provides teachers and students of grades 3 8 with direction for hands on science exploration around particular science topics and focuses The series follows the 5E model engage explore explain elaborate evaluate The Forces and Motion kit provides a complete inquiry model to explore the laws of motion through supported investigation Watch as students design a safe landing parachute to observe how the forces of deceleration work on parachutes Forces and Motion kit includes 16 Inquiry Cards in print and digital formats Teacher s Guide Inquiry Handbook Each kit includes a single copy additional copies can be ordered Digital resources include PDFs of activities and additional teacher resources including images and assessment tools leveled background pages for students and video clips to support both students and teachers United States Code United States, 2001 **Boston Journal of Chemistry and Popular Science Review**, 1883 Federal Register, 1977 **U.S. Government Research & Development Reports**, 1970

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