

# Concept-Development Practice Page

B-1

## Knowledge

1. A moving car has momentum. If it stops twice as fast, its momentum is \_\_\_\_\_ as much.
2. Two cars, one twice as heavy as the other, move down a hill at the same speed. Compared to the lighter car, the momentum of the heavier car is \_\_\_\_\_ as much.
3. The total momentum of a cannon that fires is \_\_\_\_\_ (more than) \_\_\_\_\_ (less than) \_\_\_\_\_ (the same as) the momentum of the cannonball it fires.  
*Although the speed and acceleration of the cannonball are greater.*
4. If a train slowly loads a cannon shell fired, then the momentum of the cannonball is equal to the total momentum of the \_\_\_\_\_ (cannon-shell system) \_\_\_\_\_ (train-shell).
5. Suppose you are traveling in a bus at highway speed on a nice summer day and the momentum of an outside bag is suddenly changed as it splatters onto the front window.
  - a. Compared to the force that acts on the bag, how much force acts on the bus?  
Correct: (the same) (less) (more)
  - b. The time of impact is the same for both the bag and the bus. Compared to the impulse on the bag, this means the impulse on the bus is \_\_\_\_\_ (the same) (less) (more).
  - c. Although the momentum of the bus is very large compared to the momentum of the bag, the change in momentum of the bus, compared to the change in momentum of the bag, is \_\_\_\_\_ (the same) (less) (more).
  - d. Which undergoes the greater acceleration?  
(less) (both the same) (bag)
  - e. Which, therefore, suffers the greater damage?  
(less) (both the same) (the bag of course)



# Concept Development Practice Page 7 1 Momentum

**Patrick Vollmar**



## Concept Development Practice Page 7 1 Momentum:

**1998 Freshman Achievement Award** David R. Lide, 1998     *ABC of Clinical Reasoning* Nicola Cooper, John Frain, 2022-11-07 ABC of Clinical Reasoning Being a good clinician is not only about knowledge how doctors and other healthcare professionals think reason and make decisions is arguably their most critical skill The second edition of the ABC of Clinical Reasoning breaks down clinical reasoning into its core components and explores each of these in more detail including the applications for clinical practice teaching and learning Informed by the latest evidence from cognitive psychology education and studies of expertise this edition has been extensively re written and updated and covers Key components of clinical reasoning evidence based history and examination choosing and interpreting diagnostic tests problem identification and management and shared decision making Key concepts in clinical reasoning such dual process theories and script theory Situativity and human factors Metacognition and cognitive strategies Teaching clinical reasoning From a team of expert authors the ABC of Clinical Reasoning is essential reading for all students clinical teachers curriculum planners and clinicians involved in diagnosis About the ABC series The ABC series has been designed to help you access information quickly and deliver the best patient care and remains an essential reference tool for GPs junior doctors medical students and healthcare professionals Now offering over 80 titles this extensive series provides you with a quick and dependable reference on a range of topics in all the major specialties The ABC series is the essential and dependable source of up to date information for all practitioners and students in primary healthcare To receive automatic updates on books and journals in your specialty join our email list Sign up today at [www.wiley.com](http://www.wiley.com) email     *Papers and Discussions Presented Before the [Coal] Division* American Institute of Mining, Metallurgical, and Petroleum Engineers, 1961     General Motors Corporation v Department of Treasury, 466 Mich 231 (2002) ,2002 116984     *MAP Technical Reports Series* ,1986     **Transactions** Metallurgical Society of AIME., 1961     **Monthly Catalogue, United States Public Documents** ,1990     *CRC Handbook of Chemistry and Physics, 85th Edition* David R. Lide, 2004-06-29 Get a FREE first edition facsimile with each copy of the 85th Researchers around the world depend upon having access to authoritative up to date data And for more than 90 years they have relied on the CRC Handbook of Chemistry and Physics for that data This year is no exception New tables extensive updates and added sections mean the Handbook has again set a new standard for reliability utility and thoroughness This edition features a Foreword by world renowned neurologist and author Oliver Sacks a free facsimile of the 1913 first edition of the Handbook and thumb tabs that make it easier to locate particular data New tables in this edition include Index of Refraction of Inorganic Crystals Upper and Lower Azeotropic Data for Binary Mixtures Critical Solution Temperatures of Polymer Solutions Density of Solvents as a Function of Temperature By popular request several tables omitted from recent editions are back including Coefficients of Friction and Miscibility of Organic Solvents Ten other sections have been substantially revised with some such as the Table of the Isotopes and Thermal Conductivity of Liquids significantly expanded

The Fundamental Physical Constants section has been updated with the latest CODATA NIST values and the Mathematical Tables appendix now features several new sections covering topics that include orthogonal polynomials Clebsch Gordan coefficients and statistics     *Encyclopedia of Teacher Education* Michael A. Peters,2022-08-26 This encyclopaedia is a dynamic and living reference that student teachers teacher educators researchers and professionals in the field of education with an accent on all aspects of teacher education including teaching practice initial teacher education teacher induction teacher development professional learning teacher education policies quality assurance professional knowledge standards and organisations teacher ethics and research on teacher education among other issues The Encyclopedia is an authoritative work by a collective of leading world scholars representing different cultures and traditions the global policy convergence and counter practices relating to the teacher education profession The accent will be equally on teaching practice and practitioner knowledge skills and understanding as well as current research models and approaches to teacher education

**Transactions of the American Institute of Mining, Metallurgical and Petroleum Engineers** American Institute of Mining, Metallurgical, and Petroleum Engineers,1961 Some vols 1920 1949 contain collections of papers according to subject     MAP CAMP Project "Malta" ,2003     **Monthly Catalog of United States Government Publications** ,1990

*CRC Handbook of Chemistry and Physics* David R. Lide,1995-03-09 This student edition features over 50 new or completely revised tables most of which are in the areas of fluid properties and properties of solids The book also features extensive references to other compilations and databases that contain additional information     *Mining Engineering* ,1960

*Rail Transport Journal* ,1992     Stroke Recovery and Rehabilitation Richard Harvey,Richard F. Macko,Joel Stein,Carolee Winstein,Richard D. Zorowitz,2008-11-20 A Doody's Core Title 2012 Stroke Recovery and Rehabilitation is the new gold standard comprehensive guide to the management of stroke patients Beginning with detailed information on risk factors epidemiology prevention and neurophysiology the book details the acute and long term treatment of all stroke related impairments and complications Additional sections discuss psychological issues outcomes community reintegration and new research Written by dozens of acknowledged leaders in the field and containing hundreds of tables graphs and photographic images Stroke Recovery and Rehabilitation features The first full length discussion of the most commonly encountered component of neurorehabilitation Multi specialty coverage of issues in rehabilitation neurology PT OT speech therapy and nursing Focus on therapeutic management of stroke related impairments and complications An international perspective from dozens of foremost authorities on stroke Cutting edge practical information on new developments and research trends Stroke Recovery and Rehabilitation is a valuable reference for clinicians and academics in rehabilitation and neurology and professionals in all disciplines who serve the needs of stroke survivors     **The Waterways Journal** ,1974     **Technical Education and Industrial Training** ,1964     **Library Journal** ,2000-04     *Chicago Tribune Index* ,1996

## Concept Development Practice Page 7 1 Momentum Book Review: Unveiling the Power of Words

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