

EXAMPLE Problem 1

Calculate Surface Area Suppose the length, height, and width of a cube are each 7 cm. If the cube is cut in half to form two rectangular prisms, what is the total surface area of the two prisms?



Identify the Unknowns

Total surface area of the two rectangular prisms

List Knowns

length = 7 cm = **7 cm**

height = 7 cm = **7 cm**

width = 7 cm = **7 cm**

Set Up the Problem

The rectangular prism can be cut in two.

Surface area of each prism = $2(7^2) = 98$

Surface area of each prism = $2(7^2) = 98$

Surface area of each prism = $2(7^2) = 98$

Surface area of each prism = $2(7^2) = 98$ or $2(7^2) = 98$ or $2(7^2) = 98$

Total surface area = Surface area of each prism + Surface area of each prism

Solve the Problem

Surface area of each prism =

$2(7^2) = 2(49) = 98$ or $2(7^2) = 98$ or $2(7^2) = 98$ or $2(7^2) = 98$

The total surface area of the two rectangular prisms is $98 + 98 = 196$.

Check the Answer

Total surface area of the original cube = $6(7^2) = 6(49) = 294$ or $6(7^2) = 294$

Checking the cube's area divided the surface area, which is reasonable.

PROBLEM Solving

1. Calculate Surface Area of a Rectangular Prism

1. The length, height, and width of a cube are each 7 cm. If the cube is cut in half to form two rectangular prisms, what is the total surface area of the two prisms?

Answer: 196 cm²

2. If a cube that has a length, height, and width of 4 cm is divided into two identical rectangular prisms, what is the surface area of the two prisms?

3. **Challenge** A cube of side with a length, height, and width of 7 cm is cut in half along a face to another cube of side with the same dimensions. How much surface area is lost by combining the cubes to form a rectangular prism?



Physical Science Chapter 21 Review Answers

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Let's Review Regents: Earth Science--Physical Setting Revised Edition Barron's Educational Series, Edward J. Denecke, 2021-01-05 Barron's Let's Review Regents Earth Science Physical Setting gives students the step by step review and practice they need to prepare for the Regents exam This updated edition is an ideal companion to high school textbooks and covers all Physical Setting Earth Science topics prescribed by the New York State Board of Regents This book features Comprehensive topic review covering fundamentals such as astronomy geology and meteorology Reference Tables for Physical Setting Earth Science More than 1 100 practice questions with answers covering all exam topics drawn from recent Regents exams One recent full length Regents exam with answers **Glencoe Physical Science** McGraw Hill, 1999 2000 2005 State Textbook Adoption **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Physics** Physical Science Study Committee, 1961 Science Interactions Robert W. Avakian, 1995-07-17 *CliffsNotes Praxis II* Glen E. Moulton, 2013-04 CliffsNotes Praxis II Middle School Science 0439 is a brand new addition to CliffsNotes successful Praxis II test prep series No other traditional test prep publisher publishes to this test which has been administered to over 13 000 individuals over the last three years An untapped market that CliffsNotes is filling *An Introduction to Physical Science* James T. Shipman, Jerry D. Wilson, Aaron W. Todd, 2002-07-08 This text presents a survey of the physical sciences physics chemistry astronomy meteorology and geology for non science majors Topics are treated both descriptively and quantitatively providing flexibility for instructors who wish to emphasize a highly descriptive approach a highly quantitative approach or any spectrum in between **Barron's Science 360: A Complete Study Guide to Chemistry with Online Practice** Barron's Educational Series, Mark Kernion, Joseph A. Mascetta, 2021-09-07 Barron's Science 360 Chemistry is your complete go to guide for everything chemistry This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you'll find Comprehensive Content Review Begin your study with the basic building block of chemistry and build as you go Topics include atomic structure chemical formulas electrochemistry the basics of organic chemistry and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers

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Therapeutic Modalities Kenneth L. Knight, David O. Draper, 2008 This user friendly text written in a clear and friendly manner by leading experts in the field is intended primarily for undergraduate athletic training students It encourages students to understand both the how and the why of therapeutic modality use so readers become thinking decision making professionals It provides the knowledge needed to evaluate and select the most appropriate modality All major modalities used to treat orthopedic injury and pain are covered from electrotherapy to therapeutic heat and cold to therapeutic massage

Spectrum Science, Grade 3 Spectrum, 2014-08-15 Cultivate a love for science by providing standards based practice that captures children s attention Spectrum Science for grade 3 provides interesting informational text and fascinating facts about elements compounds irrigation animal habitats and the invention of radio When children develop a solid understanding of science they re preparing for success Spectrum Science for grades 3 8 improves scientific literacy and inquiry skills through an exciting exploration of natural Earth life and applied sciences With the help of this best selling series your little scientist can discover and appreciate the extraordinary world that surrounds them

Climate Variability and Ecosystem Response at Long-Term Ecological Research Sites David Greenland, Douglas G. Goodin, Raymond C. Smith, 2003-10-09 This volume in the Long Term Ecological Research Network Series would present the work that has been done and the understanding and database that have been developed by work on climate change done at all the LTER sites Global climate change is a central issue facing the world which is being worked on by a very large number of scientists across a wide range of fields The LTER sites hold some of the best available data measuring long term impacts and changes in the environment and the research done at these sites has not previously been made widely available to the broader climate change research community This book should appeal reasonably widely outside the ecological community and because it pulls together information from all 20 research sites it should capture the interest of virtually the entire LTER research community

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