

Name _____ Class _____ Date _____

Skills Worksheet

Math Skills**Pascal's Principle**

After you study each sample problem and solution, work out the practice problems on a separate sheet of paper. Write your answers in the spaces provided.

Problem

A dentist's chair makes use of Pascal's principle to move patients up and down. Together, the chair and a patient exert a downward force of 2269 N. The chair is attached to a large piston with an area of 1221 cm². To move the chair, a pump applies force to a small piston with an area of 88.12 cm². What force must be exerted on the small piston to lift the chair?

Solution

Step 1: List the given and unknown values.

Given: $F_2 = 2269 \text{ N}$
 $A_1 = 88.12 \text{ cm}^2$
 $A_2 = 1221 \text{ cm}^2$

Unknown: F_1

Step 2: Write the equations for Pascal's principle and pressure, force, and area.

$$p_1 = p_2$$

$$\text{pressure} = \frac{\text{force}}{\text{area}}$$

Step 3: Substitute force and area into the first equation, and rearrange for the desired value.

$$p_1 = p_2$$

$$\frac{F_1}{A_1} = \frac{F_2}{A_2}$$

$$F_1 = \frac{(F_2)(A_1)}{A_2}$$

Step 4: Insert the known values into the equation, and solve.

$$F_1 = \frac{(2269 \text{ N})(88.12 \text{ cm}^2)}{1221 \text{ cm}^2}$$

$$F_1 = 163.8 \text{ N}$$

Answers For Math Skills Power Physical Science

Krauskopf; Beis



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ENC Focus ,2000 *Resources in Education* ,2001-04 **Te HS&T 2007 Shrt Crs M** Holt Rinehart & Winston,2007

Notices of the American Mathematical Society American Mathematical Society,1991 **Catalogue Number. Course**

Catalog Anonymous,2025-08-07 Reprint of the original first published in 1876 The Antigonos publishing house specialises in the publication of reprints of historical books We make sure that these works are made available to the public in good condition in order to preserve their cultural heritage *Making Skill Standards Work* ,1999 **The Software**

Encyclopedia 2000 Bowker Editorial Staff,2000-05 **Dimensional Analysis Across the Landscape of Physics** Richard W. Robinett,2025-01-20 Aimed at students throughout the undergraduate Physics curriculum this textbook emphasizes the utility of dimensional analysis techniques in research applications with examples ranging from famous papers in the historical literature to recent advances and includes an extensive array of worked examples and end of chapter problems

Carolina Science and Math Carolina Biological Supply Company,2003 **Resources for Teaching Middle School Science** Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter

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