

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

Karin Nielsen-Saines



Answers For Math Skills Power Physical Science:

Whispering the Techniques of Language: An Psychological Quest through **Answers For Math Skills Power Physical Science**

In a digitally-driven earth where screens reign supreme and instant transmission drowns out the subtleties of language, the profound strategies and mental nuances concealed within phrases often get unheard. However, nestled within the pages of **Answers For Math Skills Power Physical Science** a fascinating fictional value pulsating with fresh feelings, lies a fantastic journey waiting to be undertaken. Penned by a skilled wordsmith, this charming opus attracts viewers on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within the fabric of each word. Within the mental depths with this poignant evaluation, we will embark upon a sincere exploration of the book is key styles, dissect its charming writing model, and succumb to the strong resonance it evokes heavy within the recesses of readers hearts.

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