

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

American Mathematical Society

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the American Mathematical Society text.

Answers For Math Skills Power Physical Science:

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