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Date _____

Find The Volume Of A Right Rectangular Prism - Step-by-Step Lesson

Lesson 1 Rectangular Prism Problem:

A swimming pool is 10m long, 8m wide and 4m deep. Allen wants to know the volume of the swimming pool because he wants to fill it with water. What is the volume of the swimming pool?



Explanation:

Step 1) The volume V of a rectangular prism is the product of the length, width, and height.

The formula for volume of a rectangle is:

$$V = \text{Length} \times \text{width} \times \text{height}$$

Step 2) To find the volume of the swimming pool we perform this operation:

$$V = 10 \times 8 \times 4 = 320$$

Step 3) Properly naming the units. Since the units are meters x meter x meters, the unit (meters) will be cubed.

$$V = 320 \text{ meters}^3$$

