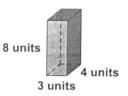
Finding the Volume of a Rectangular Prism

SKILLS -

Find the volume of each rectangular prism.

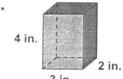
1.



Volume = ____

 $Volume = length \times width \times height$

2.



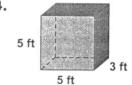
Volume = ____

3.



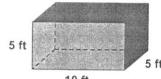
Volume = ___

4.



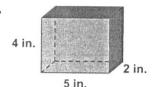
Volume = _____

5.



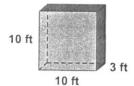
Volume = ___

6.



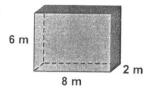
Volume = ____

7.



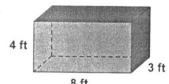
Volume = ____

8.



Volume = _____

9.



Volume = _____

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Finding the Volume of a Rectangular Prism

	3
-	CRITICAL THINKING AND PROBLEM SOLVING
10.	You bought a CD-portable stereo for your brother's birthday. The stereo is shaped like a rectangular prism that is 15 inches long by 10 inches wide by 6 inches high. You must send it to him, so you put it in a box that is 18 inches long, 12 inches wide, and 8 inches high. How many cubic inches of packing material will you need? (Hint: Find the difference between the volume of the box and the volume of the stereo.)
	You will need cubic inches of packing material.
11.	You buy a small music box shaped like a rectangular prism that is packed in a box that is 5 inches high, 4 inches wide, and 4 inches long. If you send it to a friend in a box that is 6 inches high, 7 inches wide, and 8 inches long, how much packing material will you need?
	You will need cubic inches.
12.	What is the volume of a crate, shaped like a rectangular prism, that measures 15 inches high, 15 inches wide, and 18 inches long?
	The volume is
	You want to buy enough sand to fill a rectangular sandbox halfway. the sand box is 4 feet long, 3 feet wide, and 1 foot high. How much sand is needed to fill it halfway?
	You will need of sand.
	The volume of a rectangular prism is 90 cubic inches, the length is 6 inches, and the width is 5 inches. What is the height?
	The height is
15.	Describe what a cubic inch looks like.
16.	What is the difference between volume and area?