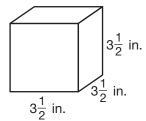
ractice **18-4**

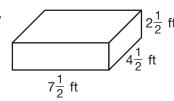
Volume with Fractional Edge Lengths

Find the volume of each rectangular prism.

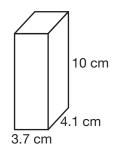
1.



2.



3.



Find the missing value for each rectangular prism.

4. Volume: $111\frac{3}{8}$ in³ Base: $20\frac{1}{4}$ in²

Height: _____

5. Volume: $8\frac{2}{3}$ ft³

Length: _____

Width: $4\frac{1}{3}$ ft

Height: $\frac{2}{3}$ ft

6. Volume: 758.16 mm³

Length: 13 mm

Width: _____

Height: 7.2 mm

- 7. Number Sense A rectangular prism can be filled with 210 half-inch cubes. How many $\frac{1}{4}$ -inch cubes would it take to fill the same prism?
- **8.** A rectangular prism has a base with an area of 31.5 cm² and a height of 4.7 cm. What is the volume of the prism?

A 36.2 cm³

C 148.05 cm³

B 72.4 cm³

D 296.1 cm³

9. Writing to Explain Find and compare the volumes of the two rectangular prisms below. How does dividing each dimension of the larger prism by 2 affect the volume of the smaller prism?

Length	Width	Height	Volume
5 in.	$4\frac{1}{2}$ in.	6 in.	
$2\frac{1}{2}$ in.	2 <u>1</u> in.	3 in.	