Volume of Rectangular Prisms

Find the volume of each rectangular prism.

1.
2 cm
4 cm
9 cm

_____

2.
5 in.
6 in.
3 in.

_____

3.
4 m
4 m
4 m

_____
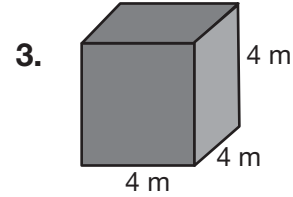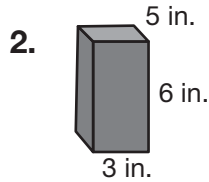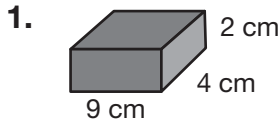
Find the missing value for each rectangular prism.

4. Volume = 6 cu in.
Length = 3 in.
Width = 2 in.
Height = _____

5. Volume = 96 cu yd
Length = _____
Width = 6 yd
Height = 8 yd

6. Volume = 125 cu ft
Length = 5 ft
Width = _____
Height = 5 ft

7. Number Sense Suppose a box has a volume of 1 cu yd.
What is its volume in cubic feet? _____

8. A rectangular prism has a base of 12 cm^2, a length of 3 cm, a width
of 4 cm, and a height of 10 cm. Which is the volume of the prism?

A 36 cm^3

B 48 cm^3

C 120 cm^3

D 1,440 cm^3

9. Writing to Explain Find and compare the volumes of the two
rectangular prisms below. How does doubling the measure of each
dimension in a rectangular prism change the volume of the prism?

	Length	Width	Height	Volume
Rectangular Prism 1	5 ft	2 ft	10 ft	
Rectangular Prism 2	10 ft	4 ft	20 ft	

_____

_____