Volume of Rectangular Prisms

You must earn 6 points!

Find the volume of the prism

1 point

1.

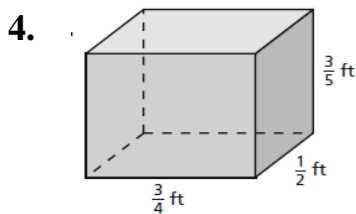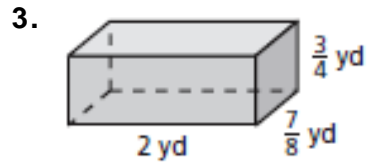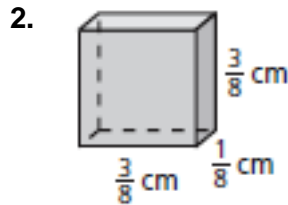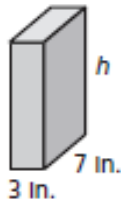$\frac{2}{3}$ m
$\frac{1}{2}$ m
$\frac{5}{6}$ m

2.

$\frac{3}{8}$ cm
$\frac{1}{8}$ cm
$\frac{3}{8}$ cm

3.

$\frac{3}{4}$ yd
$\frac{7}{8}$ yd
2 yd

4.

$\frac{3}{5}$ ft
$\frac{1}{2}$ ft
$\frac{3}{4}$ ft

5.

$\frac{2}{3}$ m
$\frac{4}{5}$ m
$\frac{5}{6}$ m

6.

$\frac{1}{6}$ in.
$\frac{3}{4}$ in.
$\frac{2}{3}$ in.
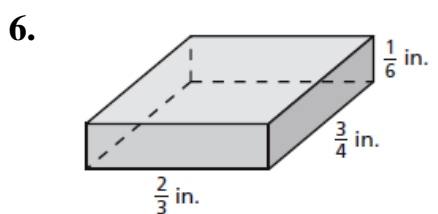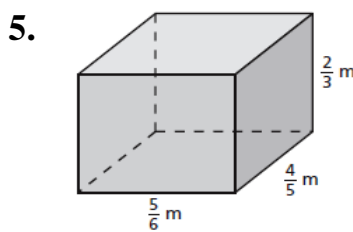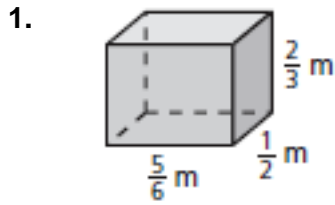
Write and solve an equation to find the missing dimension of the prism.

7. Volume = 231 in.^{3}

h
7 In.
3 In.

8. Volume = 864 yd^3

h
8 yd
12 yd
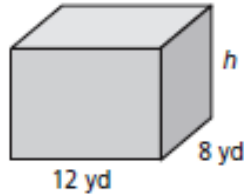
2 points

Solve the word problem.

9. A cellular phone is in the shape of a rectangular prism. The height of the phone is 6 millimeters, and the width is 50 millimeters. The volume is 222,500 cubic millimeters. What is the length of the cellular phone?

10. A cube with side lengths of 4 centimeters is 25% full of sand. What is the volume of the sand?

Reflecting Back

You must complete ALL 6 problems!

1. **What is the value of the expression when x = 5?**

$$3x^2 + 2x + (25 - 10)$$

2. **Tell whether the ordered pair is a solution of the equation.**

$$y = 2x - 4; \quad (5, 8)$$

3. **Write the expression.**

The product of *y* and 6 divided by 3.

4. **Find the percent.**

Yesterday, 25% of the 120 sixth-graders at a school were early to lunch.
How many sixth-graders were early to lunch?

5. **Find the unit rate.**

Shannon scored 48 points on 8 questions on her test.
What is the unit rate for one question?

6. **Find the Greatest Common Factor (GCF) & the Least Common Multiple (LCM).**

24   and   96