Lesson 6.5T ~ Volume with Fractional Dimensions

Name_____ Period_____ Date_____

Use the formula V = *lwh* to find the volume of a rectangular prism.

1. $l = \frac{2}{3}$ *in*, $w = \frac{1}{6}$ *in*, $h = \frac{3}{4}$ *in*

a. Substitute each value in the formula: V = *lwh*

V = ☐ × ☐ × ☐

b. Cross-simplify any numerators and denominators.

c. Solve using simplified fractions.

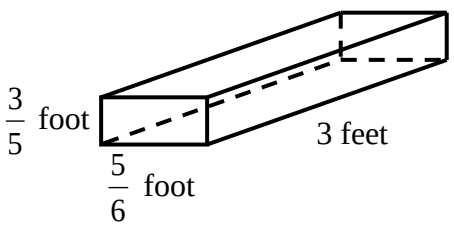
V = ☐ × ☐ × ☐

d. V = _____ cubic _____

2. $l = \frac{1}{2}$ meter, $w = \frac{4}{5}$ meter, $h = \frac{1}{4}$ meter

Find the volume.

3.



4. $l = 5$ *cm*, $w = 2\frac{2}{5}$ *cm*, $h = 1\frac{1}{3}$ *cm*

a. Rewrite all mixed or whole numbers as improper fractions.

$5 =$ ☐ $2\frac{2}{5} =$ ☐ $1\frac{1}{3} =$ ☐

b. Substitute each value in the formula: $V = lwh$

V = ☐ × ☐ × ☐

c. Cross-simplify any numerators and denominators.

d. Solve using simplified fractions.

V = ☐ × ☐ × ☐

e. V = _____ cubic _____

5. $l = 1\frac{1}{2}$ *ft*, $w = 2\frac{2}{3}$ *ft*, $h = 2\frac{1}{4}$ *ft*

Find the volume.

6.