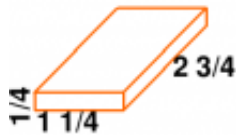


Volume/Surface Area

1 a.



1. This is a unit fraction cube: $\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}$

How many unit fraction cubes fit into the solid above?

2. Find the volume of the solid.

1 b.



1. This is a unit fraction cube: $\frac{1}{3} \times \frac{1}{3} \times \frac{1}{3}$

How many unit fraction cubes fit into the solid above?

2. Find the volume of the solid.

2 a.



1. This is a unit fraction cube: $\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}$

How many unit fraction cubes fit into the solid above?

2. Find the volume of the solid.

2 b.



1. This is a unit fraction cube: $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$

How many unit fraction cubes fit into the solid above?

2. Find the volume of the solid.

Name: _____ Date: _____

Answer Key

1 a. A total of 55 unit fraction cubes fit into the rectangular prism. The volume is $55/64$ cubic units.	1 b. A total of 30 unit fraction cubes fit into the rectangular prism. The volume is $1 \frac{1}{9}$ cubic units.
2 a. A total of 44 unit fraction cubes fit into the rectangular prism. The volume is $11/16$ cubic units.	2 b. A total of 16 unit fraction cubes fit into the rectangular prism. The volume is 2 cubic units.