



Cubic Units of Measure

Let's use different cubic units to measure volume.

Warm-up

Notice and Wonder: Two Prisms

What do you notice? What do you wonder?



Activity 1

What Are the Units?

For each object, choose the cubic unit you would use to measure the volume: cubic centimeter, cubic inch, or cubic foot.

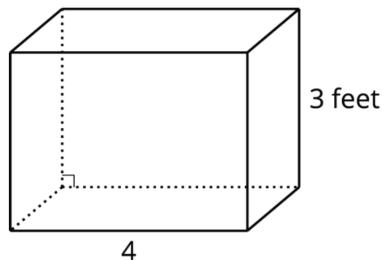
volume of	unit
a moving truck	
a freezer	
a juice box	
a classroom	
a dumpster	
a lunch box	



Activity 2

Info Gap: Sizing Up Cubic Units (Part 1)

Problem Card



What is the volume of this freezer?

Activity 3

Info Gap: Sizing Up Cubic Units (Part 2)

Your teacher will give you either a Problem Card or a Data Card. Do not show or read your card to your partner.

Problem Card Student

Silently read the Problem Card.

Data Card Student

Silently read the Data Card.

“Can you tell me ___?”
(Ask for a specific piece of information.)

“I need to know ___ because. . .”

“I have enough information to solve this problem.”

Display the Problem Card.

“Why do you need to know ___?”
(Repeat the information requested)

Listen to your partner’s reason.

Answer with information from the Data Card.

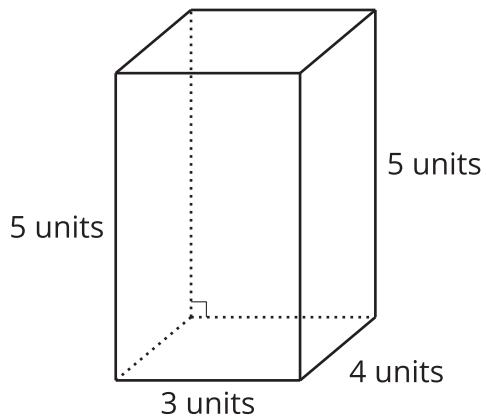
Solve the problem independently.
Continue to ask questions if more information is needed.

Share the Data Card. Then compare strategies and solutions.

Pause here so your teacher can review your work. Ask your teacher for a new set of cards and repeat the activity, trading roles with your partner.

Section B Summary

We learned to find the volume of a right rectangular prism by multiplying the side lengths or by multiplying the **area** of the base by the height.



$$4 \times (5 \times 3)$$

$$(4 \times 5) \times 3$$

$$15 \times 4$$

Each of these expressions represents the volume of this prism. The volume of this rectangular prism is 60 cubic units.

We learned to use different cubic units to measure the volume of objects of different sizes. We used cubic inches, cubic feet, cubic yards, and cubic centimeters to measure volume.