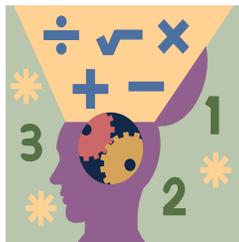


Name: \_\_\_\_\_ Section: \_\_\_\_\_



### Homework

Greetings Scholars and Parents. Hope you are all comfortably settled into the new year. This week we will be starting on **Chapter 15**. Remember to check **CINEMATH** for reviews! **YOUR FINAL TEST OF THE QUARTER WILL BE THURSDAY, JANUARY 9<sup>TH</sup> 2025.**

### Extra Practice – OPTIONAL THIS WEEK

Additional practice for the daily lessons is available on IXL. To access extra practice, please have your child login into IXL. Under the **“FROM YOUR TEACHER”** section, scholars will find Teacher Assigned Lessons. From there, you will see a list of lessons reinforcing the daily skills.

- [Volume of rectangular prisms made of unit cubes I](#)
- [Volume of rectangular prisms made of unit cubes II](#)
- [Volume of rectangular prisms made of unit cubes: word problems](#)
- [Volume of irregular figures made of unit cubes](#)
- [Volume of cubes and rectangular prisms](#)
- [Volume of compound figures](#)

### Notes

**Completed homework packets should be uploaded or turned in on Sunday, January 12th.** Students must prove and show all their work in the provide space. Scholars should use a separate sheet of paper if they need additional space. Failure to show work or packets submitted after the due date will result in a lower grade. If a scholar struggles with a lesson, they can review the daily lesson on HMH. Please feel free to contact me with any questions or concerns at [peter.vanegas@archimedean.org](mailto:peter.vanegas@archimedean.org).

<u>Monday</u>	December 16 <sup>th</sup>	– 15.2
<u>Tuesday</u>	December 17 <sup>th</sup>	– IN CLASS REVIEW DUE WEDESDAY NIGHT.
<u>Wednesday</u>	December 18 <sup>th</sup>	– 15.4
<u>Thursday</u>	December 19 <sup>th</sup>	– TEST DAY – AREA & PERIMETER.
<u>Friday</u>	December 20 <sup>th</sup>	– 15.3

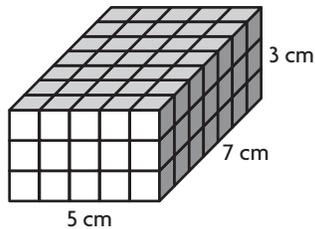
# Understand Volume

**Go Online**

Interactive Examples

Use the unit given. Find the volume.

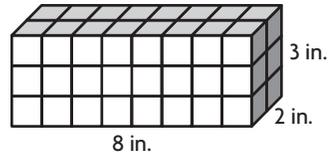
1.



Each cube = 1 cu cm

 Volume = 105 cu cm

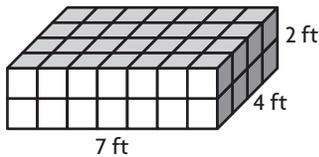
2.



Each cube = 1 cu in.

Volume = \_\_\_\_\_ cu \_\_\_\_\_

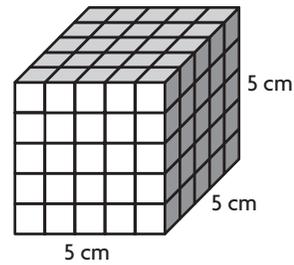
3.



Each cube = 1 cu ft

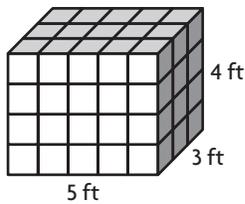
Volume = \_\_\_\_\_ cu \_\_\_\_\_

4.

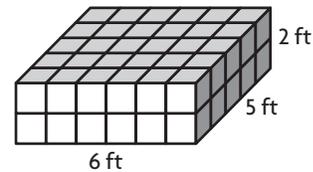


Each cube = 1 cu cm

Volume = \_\_\_\_\_ cu \_\_\_\_\_

 5. Compare the volumes. Write  $<$ ,  $>$ , or  $=$ .


Each cube = 1 cu ft

 \_\_\_\_\_ cu ft  \_\_\_\_\_ cu ft


Each cube = 1 cu ft

## Problem Solving

6. A manufacturer ships its product in boxes with edges of 4 inches. If 12 boxes are put in a carton and completely fill the carton, what is the volume of the carton?

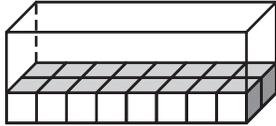
 \_\_\_\_\_  
 \_\_\_\_\_

7. Hugo and Ava each built a rectangular prism that has a length of 5 units, a width of 2 units, and a height of 4 units. Hugo used cubes that are 1 cm on each side. Ava used cubes that are 1 in. on each side. What is the volume of each prism?

 \_\_\_\_\_  
 \_\_\_\_\_

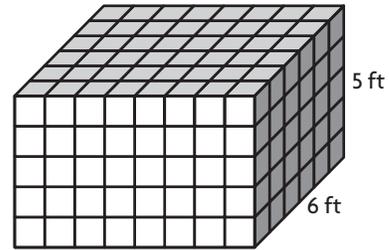
## Lesson Check

8. Elena packed 48 cubes into this box. Each cube has edges that are 1 centimeter. How many layers of cubes did Elena make?



---

9. What is the volume of the rectangular prism?



8 ft  
Each cube = 1 cu ft

---

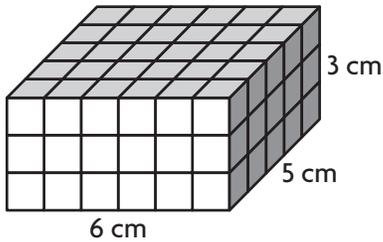
# Volume of Rectangular Prisms

Go Online

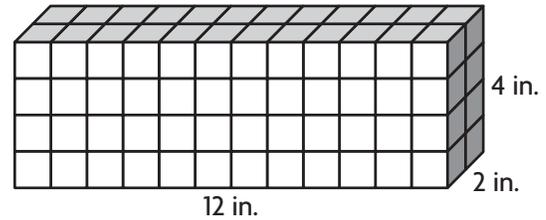
Interactive Examples

Find the volume.

1.

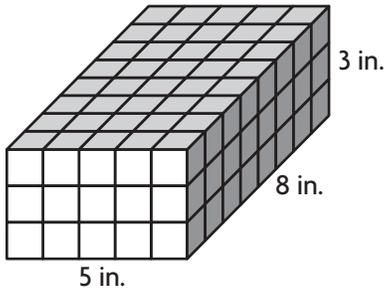
Volume: 90 cu cm

2.



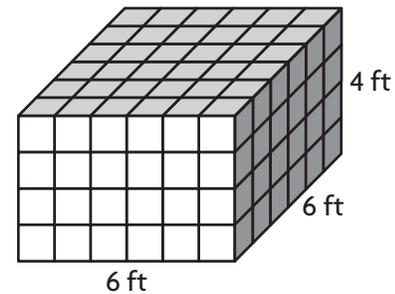
Volume: \_\_\_\_\_

3.



Volume: \_\_\_\_\_

4.



Volume: \_\_\_\_\_

## Problem Solving

5. Aaron keeps his baseball cards in a cardboard box that is 12 inches long, 8 inches wide, and 3 inches high. What is the volume of this box?

\_\_\_\_\_

6. Riley's jewelry box is in the shape of a cube that has 6-inch edges. What is the volume of Riley's jewelry box?

\_\_\_\_\_

7. **WRITE**  *Math* Write a word problem that involves finding the volume of a box. Draw the box, solve the problem, and explain how you found your answer.

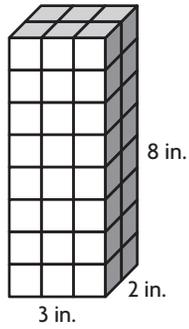
\_\_\_\_\_

\_\_\_\_\_

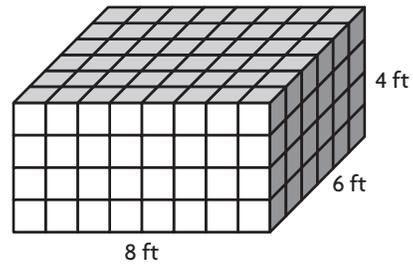
\_\_\_\_\_

## Lesson Check

8. Laini uses 1-inch cubes to build the box shown below. What is the volume of the box?



9. Mason stacked 1-foot cube-shaped boxes in a warehouse. What is the volume of the stack of boxes?



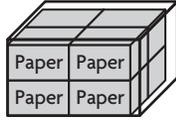
# Estimate Volume

Go Online

Interactive Examples

Estimate the volume.

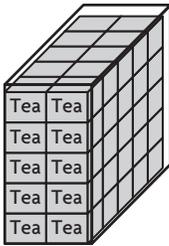
1. Volume of package of paper: 200 cu in.



**Think:** Each package of paper has a volume of 200 cu in. There are 8 packages of paper in the larger box. So, the volume of the large box is about 8  $\times$  200, or 1,600 cubic inches.

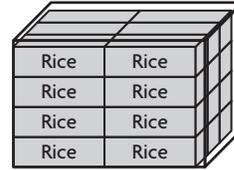
Volume of large box: 1,600 cu in.

3. Volume of tea box: 40 cu in.



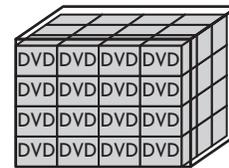
Volume of large box: \_\_\_\_\_

2. Volume of rice box: 500 cu cm



Volume of large box: \_\_\_\_\_

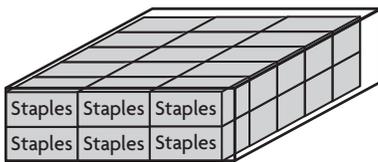
4. Volume of DVD case: 20 cu in.



Volume of large box: \_\_\_\_\_

## Problem Solving

5. Theo fills a large box with boxes of staples. The volume of each box of staples is 120 cu cm. Estimate the volume of the large box.



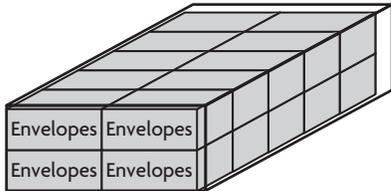
\_\_\_\_\_

6. **WRITE**  *Math* Explain how you can estimate the volume of a large container that holds 5 rows of 4 snack-size boxes of cereal in its bottom layer and is 3 layers high. Each cereal box has a volume of 16 cubic inches.

\_\_\_\_\_

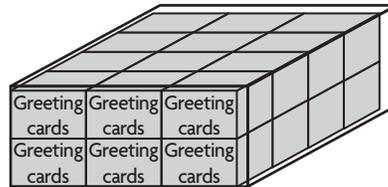
## Lesson Check

7. Mesoon packs boxes of envelopes into a larger box. The volume of each box of envelopes is 1,200 cubic centimeters. About what is the volume of the large box?



---

8. Calvin packs boxes of greeting cards into a larger box. The volume of each box of greeting cards is 90 cubic inches. About what is the volume of the large box?



---