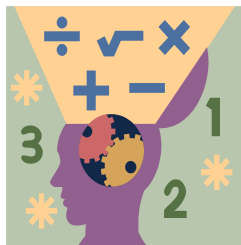


Name: _____ Section: _____



Homework

Greetings, Scholar and Parents! This week, we start **Chapter 15 – Volume of Rectangular Prisms**. This chapter starts off with a fairly straight-forward and easy formula, but quickly complicates itself with high-level applications such as volume per unit object, hypothetical fillings and estimation, and composite figures.

Extra Practice

Additional practice for the daily lessons is available on IXL. To access extra practice, please have your child login into IXL and see **“From Your Teacher”** section. These are recommended for reinforcement.

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

Notes

This homework assignment is due on Sunday, January 18th. 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.

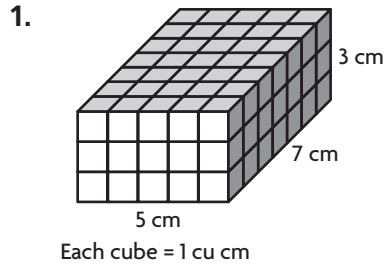
<u>Monday</u>	January 12 th	15.2
<u>Tuesday</u>	January 13 th	EXTRA CREDIT QUIZ – NO ADDITIONAL WORK
<u>Wednesday</u>	January 14 th	15.3
<u>Thursday</u>	January 15 th	MINI-QUIZ: Volume Basics
<u>Friday</u>	January 16 th	Teacher Planning Day – No Homework.

Understand Volume

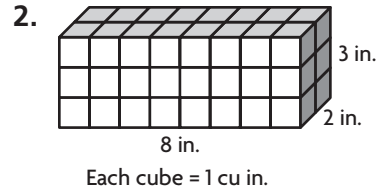
Go Online

Interactive Examples

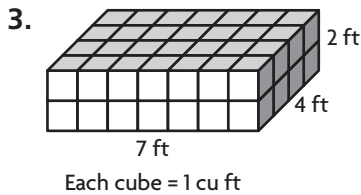
Use the unit given. Find the volume.



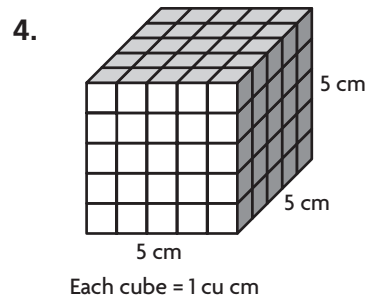
Volume = 105 cu cm



Volume = _____ cu _____

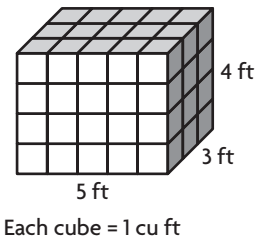


Volume = _____ cu _____

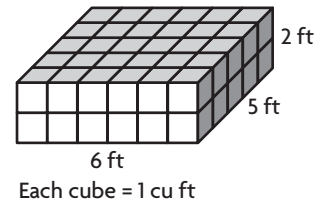


Volume = _____ cu _____

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



_____ cu ft _____ cu ft



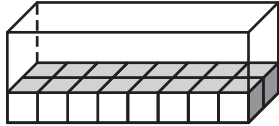
Problem Solving

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?

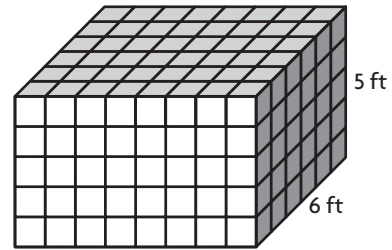
7. Hugo and Ava each built a rectangular prism that has a length of 5 units, a width of 2 units, and a height of 4 units. Hugo used cubes that are 1 cm on each side. Ava used cubes that are 1 in. on each side. What is the volume of each prism?

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

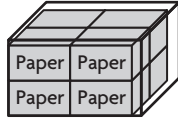
Estimate Volume

Go Online

Interactive Examples

Estimate the volume.

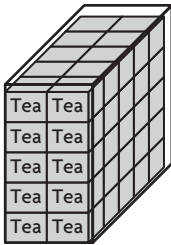
1. Volume of package of paper: 200 cu in.



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.

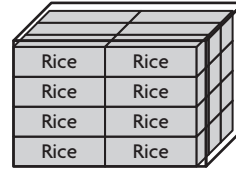
 Volume of large box: 1,600 cu in.

3. Volume of tea box: 40 cu in.



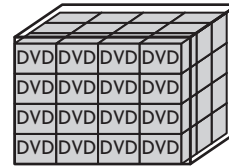
Volume of large box: _____

2. Volume of rice box: 500 cu cm



Volume of large box: _____

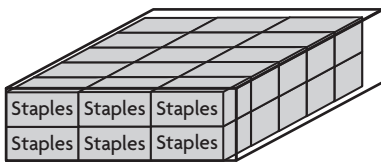
4. Volume of DVD case: 20 cu in.



Volume of large box: _____

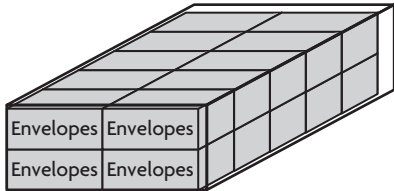
Problem Solving

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.

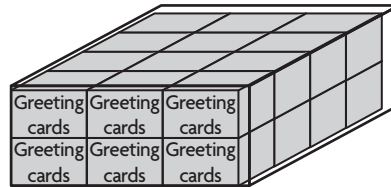


Lesson Check

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?



10. Each cube represents 1 cubic inch. What is the volume of the prism?

