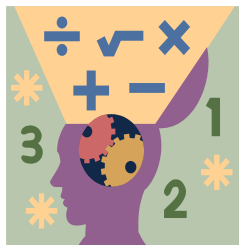


Name: \_\_\_\_\_ Section: \_\_\_\_\_



### Homework

Greetings Scholar and Parents. We will focus our efforts this week on Chapter 15, *Volume*. Scholars will learn how to find the volume of rectangular prisms and compound figures using formulas. Please complete homework daily based on the schedule provided below.

### Extra Practice

Additional practice for the daily lessons is available on IXL. To access extra practice, please have your child login into IXL. Under the **“What should I work on”** 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, 19th.** 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@archimedeans.org](mailto:peter.vanegas@archimedeans.org).

<u>Monday</u>	Jan 13 <sup>th</sup>	– 15.3
<u>Tuesday</u>	Jan 14 <sup>th</sup>	– 15.5
<u>Wednesday</u>	Jan 15 <sup>th</sup>	– 15.6
<u>Thursday</u>	Jan 16 <sup>th</sup>	– Finish IXLs: TFL, J83
<u>Friday</u>	Jan 17 <sup>th</sup>	– TEACHER PLANNING DAY

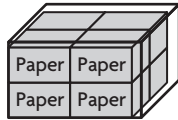
# Estimate Volume

Go Online

Interactive Examples

Estimate the volume.

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

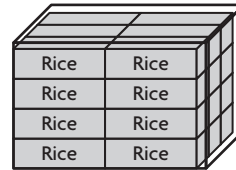


**Think:** Each package of paper has a volume of 200 cu in. There are 8 packages of paper in the larger box. So, the volume of the

large box is about 8  $\times$  200, or 1,600 cubic inches.

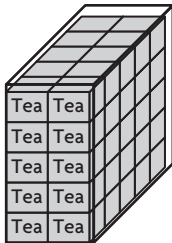
Volume of large box: 1,600 cu in.

2. Volume of rice box: 500 cu cm



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

3. Volume of tea box: 40 cu in.



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

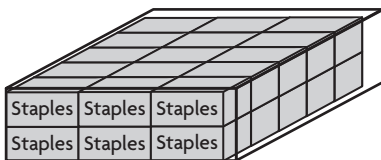
4. Volume of DVD case: 20 cu in.



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

## Problem Solving

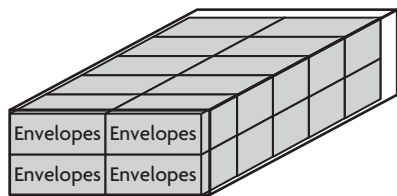
5. Theo fills a large box with boxes of staples. The volume of each box of staples is 120 cu cm. Estimate the volume of the large box.



\_\_\_\_\_

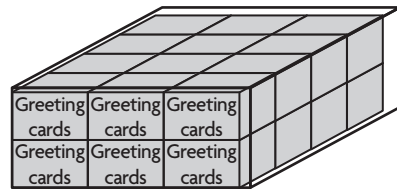
Lesson Check

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?



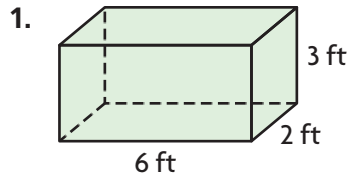
\_\_\_\_\_

# Apply Volume Formulas

Go Online

Interactive Examples

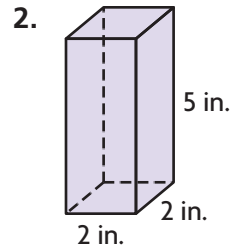
Find the volume.



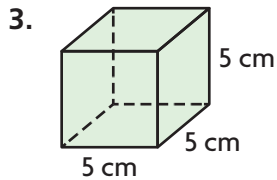
$$V = \underline{\quad l \quad} \times \underline{\quad w \quad} \times \underline{\quad h \quad}$$

$$V = \underline{\quad 6 \quad} \times \underline{\quad 2 \quad} \times \underline{\quad 3 \quad}$$

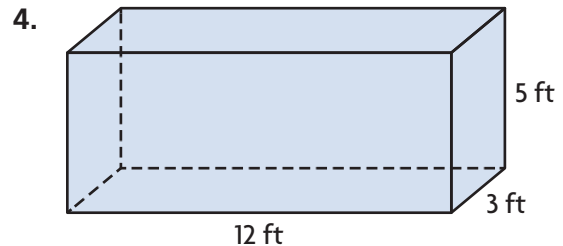
$$V = \underline{\quad 36 \text{ cu ft} \quad}$$



$$V = \underline{\hspace{2cm}}$$



$$V = \underline{\hspace{2cm}}$$



$$V = \underline{\hspace{2cm}}$$


## Problem Solving

5. A construction company is digging a hole for a swimming pool. The hole will be 12 yards long, 7 yards wide, and 3 yards deep. How many cubic yards of dirt will the company need to remove?

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6. Andrea rents a storage room that is 15 feet long, 5 feet wide, and 8 feet high. What is the volume of the storage room?

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7.  **WRITE** *Math* Explain how you would find the height of a rectangular prism if you know that the volume is 60 cubic centimeters and that the area of the base is 10 square centimeters.

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## Lesson Check

8. Sayeed is buying a crate for his puppy. The crate is 20 inches long, 13 inches wide, and 16 inches high. What is the volume of the crate?
9. Carmen has a gift box in the shape of a cube. Each side of the box measures 15 centimeters. What is the volume of the gift box?

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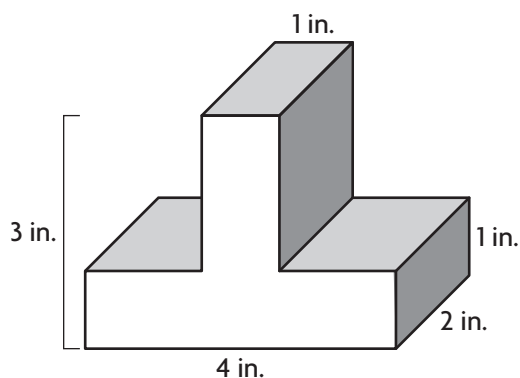
# Find Volume of Composed Figures

Go Online

Interactive Examples

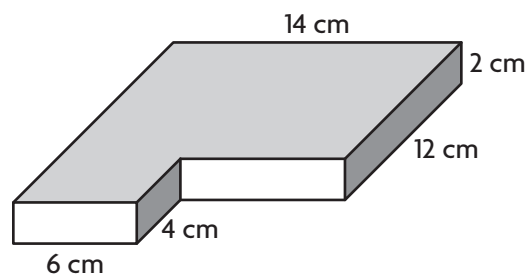
Find the volume of the composite figure.

1.



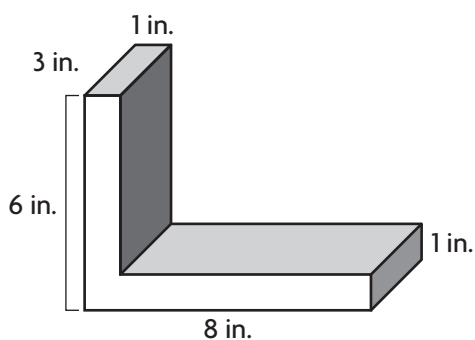
V = \_\_\_\_\_

2.



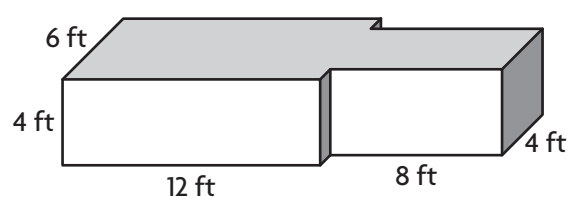
V = \_\_\_\_\_

3.



V = \_\_\_\_\_

4.

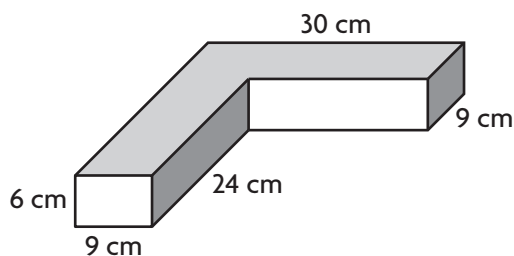


V = \_\_\_\_\_

## Problem Solving

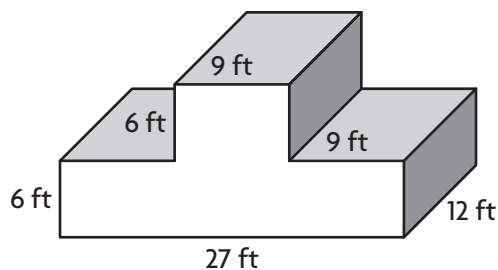


5. As part of her shop class, Jules made the figure below out of pieces of wood. How much space does the figure she made take up?



\_\_\_\_\_

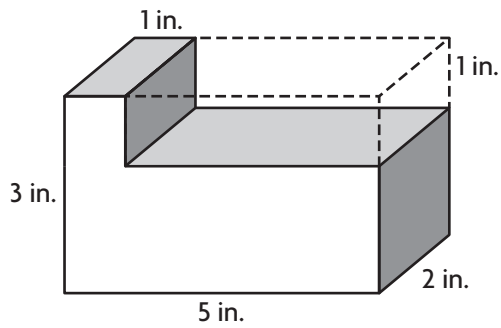
6. What is the volume of the composite figure below?



\_\_\_\_\_

## Lesson Check

7. Write an expression to represent the volume of the composite figure.



8. Suppose you take the small prism and stack it on top of the larger prism. What will be the volume of the composite figure?

