

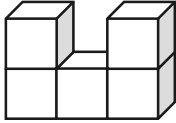


Name \_\_\_\_\_

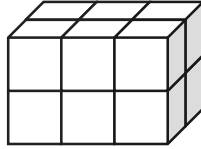
Date \_\_\_\_\_

1. What is the volume of the figures pictured below?

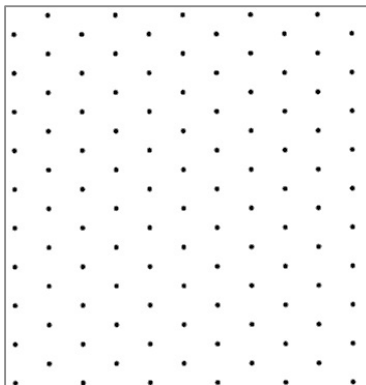
a.



b.



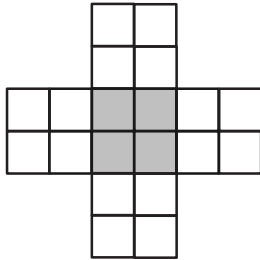
2. Draw a picture of a figure with a volume of 3 cubic units on the dot paper.



Name \_\_\_\_\_

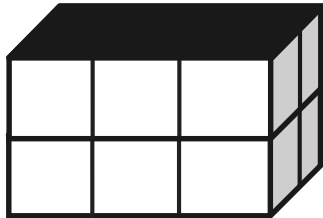
Date \_\_\_\_\_

1. If this figure were to be folded into a box, how many cubes would fill it?



Number of cubes: \_\_\_\_\_

2. Predict how many centimeter cubes will fit in the box, and briefly explain your prediction. Use cubes to find the actual volume. (The figure is not drawn to scale.)



Prediction: \_\_\_\_\_

Actual: \_\_\_\_\_

Name \_\_\_\_\_

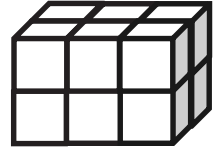
Date \_\_\_\_\_

1. Use unit cubes to build the figure to the right, and fill in the missing information.

Number of layers: \_\_\_\_\_

Number of cubes in each layer: \_\_\_\_\_

Volume: \_\_\_\_\_ cubic centimeters

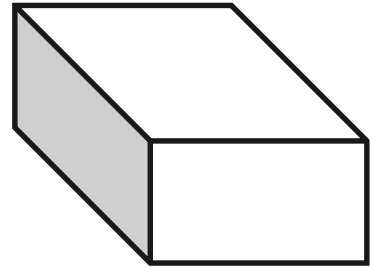


2. This prism measures 3 units by 4 units by 2 units. Draw the layers as indicated.

Number of layers: 4

Number of cubic units in each layer: 6

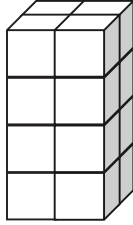
Volume: \_\_\_\_\_ cubic centimeters



Name \_\_\_\_\_

Date \_\_\_\_\_

1. Calculate the volume of prism.



Length: \_\_\_\_\_ mm

Width: \_\_\_\_\_ mm

Height: \_\_\_\_\_ mm

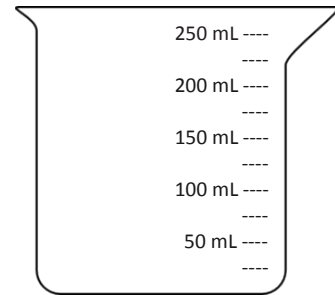
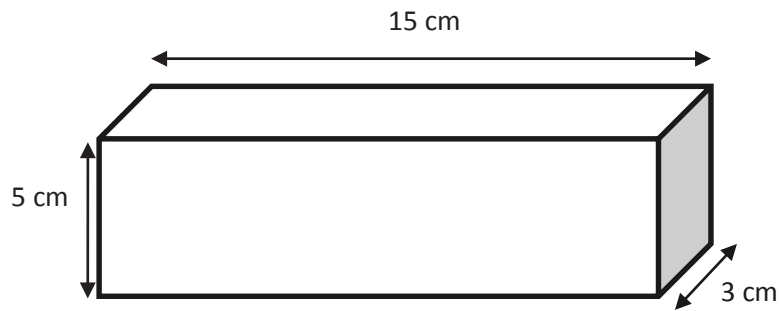
Volume: \_\_\_\_\_ mm<sup>3</sup>

Write the multiplication sentence that shows how you calculated the volume. Be sure to include the units.

2. A rectangular prism has a top face with an area of 20 ft<sup>2</sup> and a height of 5 ft. What is the volume of this rectangular prism?

Name \_\_\_\_\_

Date \_\_\_\_\_

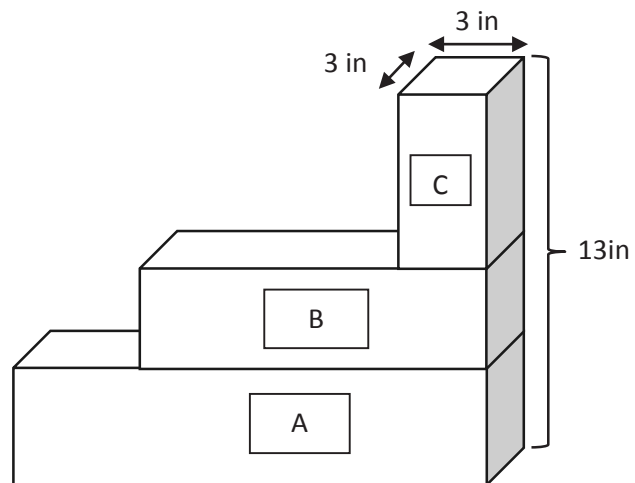


- Find the volume of the prism.
- Shade the beaker to show how much liquid would fill the box.

Name \_\_\_\_\_

Date \_\_\_\_\_

The image below represents three planters that are filled with soil. Find the total volume of soil in the three planters. Planter A is 14 inches by 3 inches by 4 inches. Planter B is 9 inches by 3 inches by 3 inches.



Name \_\_\_\_\_

Date \_\_\_\_\_

A storage shed is a rectangular prism and has dimensions of 6 meters by 5 meters by 12 meters. If Jean were to double these dimensions, she believes she would only double the volume. Is she correct? Explain why or why not. Include a drawing in your explanation.



Name \_\_\_\_\_

Date \_\_\_\_\_

Sketch a rectangular prism that has a volume of 36 cubic cm. Label the dimensions of each side on the prism. Fill in the blanks that follow.

Height: \_\_\_\_\_ cm

Length: \_\_\_\_\_ cm

Width: \_\_\_\_\_ cm

Volume: \_\_\_\_\_ cubic cm

Name \_\_\_\_\_

Date \_\_\_\_\_

A student designed this sculpture. Using the dimensions on the sculpture, find the dimensions of each rectangular prism. Then, calculate the volume of each prism.

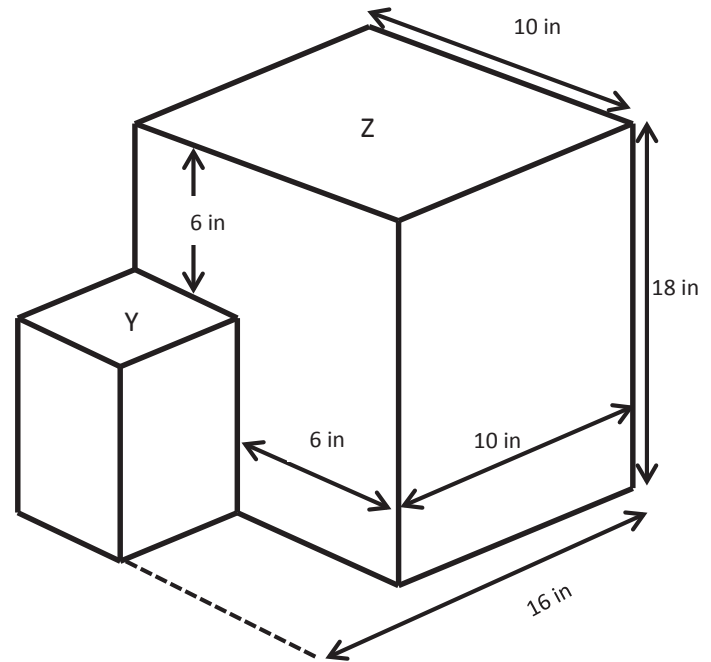
- a. Rectangular Prism Y

Height: \_\_\_\_\_ inches

Length: \_\_\_\_\_ inches

Width: \_\_\_\_\_ inches

Volume: \_\_\_\_\_ cubic inches



- b. Rectangular Prism Z

Height: \_\_\_\_\_ inches

Length: \_\_\_\_\_ inches

Width: \_\_\_\_\_ inches

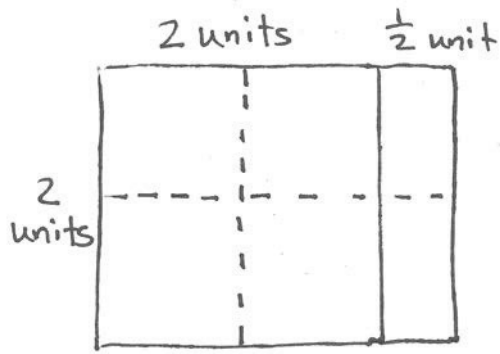
Volume: \_\_\_\_\_ cubic inches

- c. Find the total volume of the sculpture. Label the answer.

Name \_\_\_\_\_

Date \_\_\_\_\_

Emma tiled a rectangle and then sketched her work. Fill in the missing information, and multiply to find the area.

**Emma's Rectangle:**

\_\_\_\_\_ units long \_\_\_\_\_ units wide

Area = \_\_\_\_\_ units<sup>2</sup>

Name \_\_\_\_\_

Date \_\_\_\_\_

To find the area, Andrea tiled a rectangle and sketched her answer. Sketch Andrea's rectangle, and find the area. Show your multiplication work.

Rectangle is

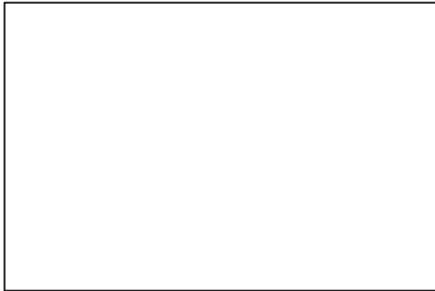
$$2\frac{1}{2} \text{ units} \times 2\frac{1}{2} \text{ units}$$

Area = \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

Measure the rectangle to the nearest  $\frac{1}{4}$  inch with your ruler, and label the dimensions. Find the area.



Name \_\_\_\_\_

Date \_\_\_\_\_

Find the area of the following rectangles. Draw an area model if it helps you.

1.  $\frac{7}{2} \text{ mm} \times \frac{14}{5} \text{ mm}$

2.  $5\frac{7}{8} \text{ km} \times \frac{18}{4} \text{ km}$

Name \_\_\_\_\_

Date \_\_\_\_\_

Mr. Klimek made his wife a rectangular vegetable garden. The width is  $5\frac{3}{4}$  ft, and the length is  $9\frac{4}{5}$  ft. What is the area of the garden?

Name \_\_\_\_\_

Date \_\_\_\_\_

Wheat grass is grown in planters that are  $3\frac{1}{2}$  inch by  $1\frac{3}{4}$  inch. If there is a  $6 \times 6$  array of these planters with no space between them, what is the area covered by the planters?



Name \_\_\_\_\_

Date \_\_\_\_\_

a. Use a ruler and a set square to draw a trapezoid.

b. What attribute must be present for a quadrilateral to also be a trapezoid?

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Draw a parallelogram.

2. When is a trapezoid also called a parallelogram?

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Draw a rhombus.

2. Draw a rectangle.



Name \_\_\_\_\_

Date \_\_\_\_\_

Use your tools to draw a square in the space below. Then, fill in the blanks with an attribute. There is more than one answer to some of these.

- a. Because a square is a kite, it must have \_\_\_\_\_.
- b. Because a square is a rhombus, it must have \_\_\_\_\_.
- c. Because a square is a rectangle, it must have \_\_\_\_\_.
- d. Because a square is a parallelogram, it must have \_\_\_\_\_.
- e. Because a square is a trapezoid, it must have \_\_\_\_\_.
- f. Because a square is a quadrilateral, it must have \_\_\_\_\_.

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Use the word bank to fill in the blanks.

trapezoids   parallelograms
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All \_\_\_\_\_ are \_\_\_\_\_, but not all \_\_\_\_\_ are \_\_\_\_\_.

2. Use the word bank to fill in the blanks.

kites   rhombuses
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All \_\_\_\_\_ are \_\_\_\_\_, but not all \_\_\_\_\_ are \_\_\_\_\_.