NAME DATE

SRB 38 266-269

Practice Set 1

Write an expression for each item. Include the solution.

EXAMPLE

14 minus 7

$14 - 7 = 7$

(1) 8 plus 2 _____

(2) 5 times 4 _____

(3) 15 minus 8 _____

(4) the sum of 70 and 45 _____

(5) the product of 8 and 100 _____

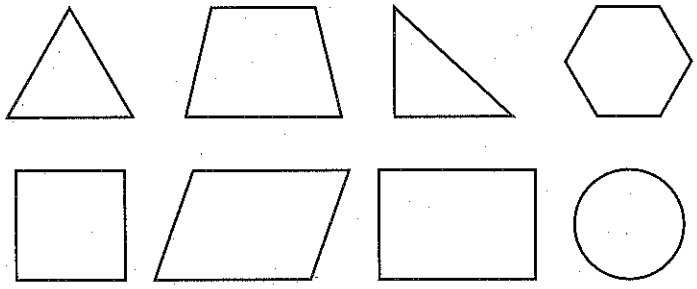
(6) double 30 _____

(7) the sum of 6 and 5 minus 4 _____

(8) the quotient of 36 and 6 _____

(9) triple 100 _____

(10) Circle the quadrilaterals.



(11) Draw two right triangles below.

(12) **Writing/Reasoning** Explain what attribute makes your triangles right triangles.

_____

_____

Evaluate each expression.

(13) $5 * (6 + 1) - 4 =$ _____

(14) $4 + [3 * (3 - 1) + 6] =$ _____

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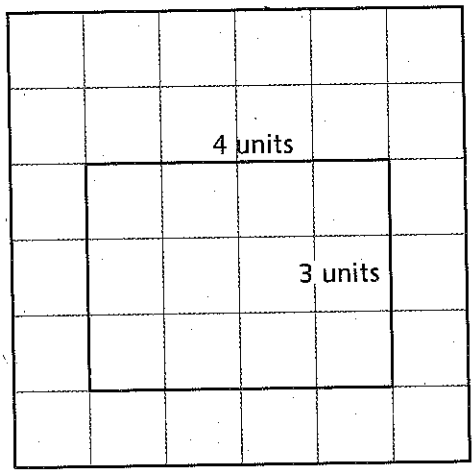
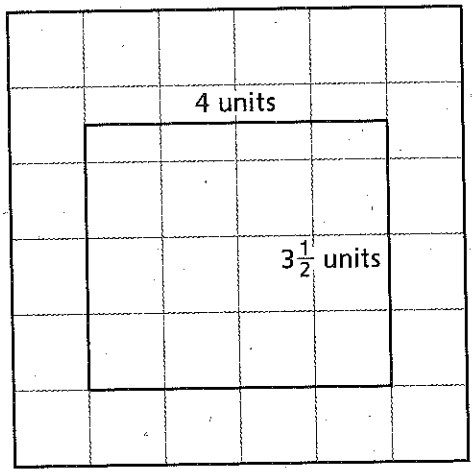
Practice Set 2

In Problems 1 and 2, each grid square is 1 square unit. Find the area of each rectangle. Don't forget to include the unit.

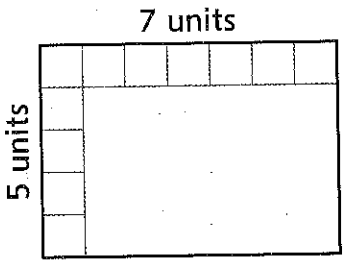
1. 

Area: _____

2. 

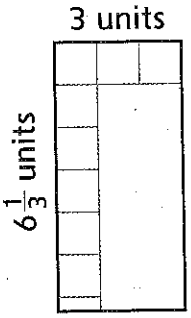
Area: _____

Find the area of each rectangle. Write a number sentence to show your thinking.

3. 

Area: _____ square units

_____
number sentence

4. 

Area: _____ square units

_____
number sentence

Add.

5. $\frac{1}{5} + \frac{2}{5} =$ _____

6. $\frac{2}{4} + \frac{1}{4} =$ _____

7. $\frac{3}{8} + \frac{1}{8} + \frac{2}{8} =$ _____

8. $\frac{1}{12} + \frac{9}{12} =$ _____

9. $\frac{1}{9} + \frac{2}{9} + \frac{3}{9} =$ _____

10. $\frac{2}{3} + \frac{1}{3} + \frac{1}{3} =$ _____

11. $\frac{5}{8} + \frac{6}{8} =$ _____

12. $\frac{6}{7} + \frac{1}{7} =$ _____

13. $\frac{6}{10} + \frac{3}{10} + \frac{8}{10} =$ _____

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Practice Set 3

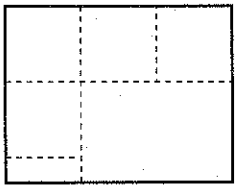
Find the area of each rectangle below. Write a number sentence for each problem.

1 cm

1 cm^2

① 3 cm

$2\frac{1}{3}$ cm

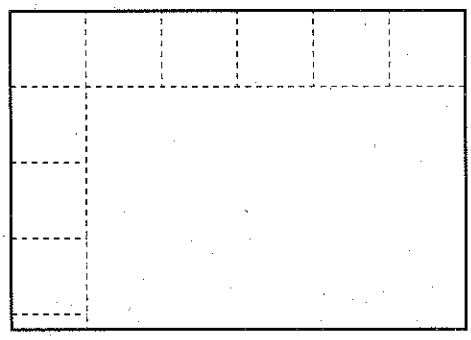


Area = _____

Number sentence = _____

② 6 cm

$4\frac{1}{5}$ cm



Area = _____

Number sentence = _____

Solve.

③ 12 inches = _____ feet

④ 60 inches = _____ feet

⑤ 54 inches = _____ feet

⑥ 28 inches = _____ feet

⑦ 100 inches = _____ feet

⑧ 50 inches = _____ feet

Give the value of 5 in each number below.

⑨ 527 _____

⑩ 105 _____

⑪ 5,476 _____

⑫ 3,250 _____

⑬ 685 _____

⑭ 7,561 _____

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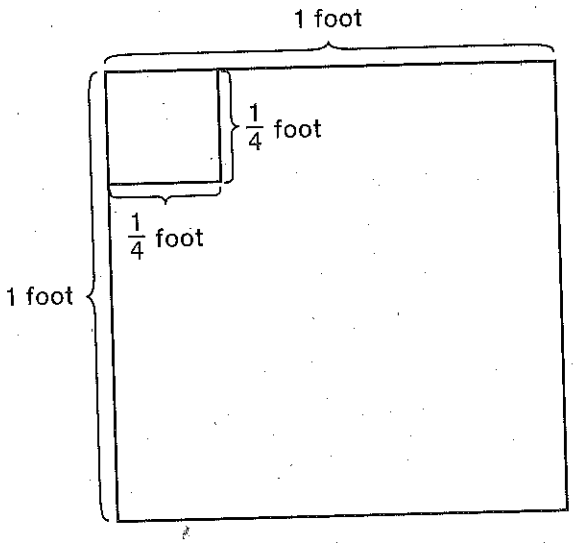
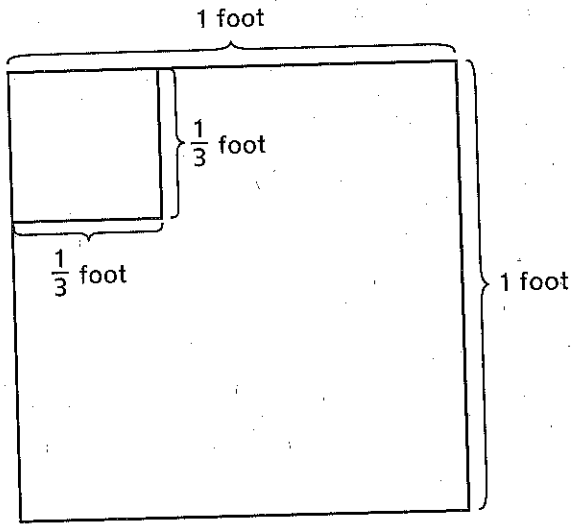
Practice Set 4

(1) How many squares of $\frac{1}{4}$ foot side length would fit into 1 square foot? Draw lines on the picture to help.



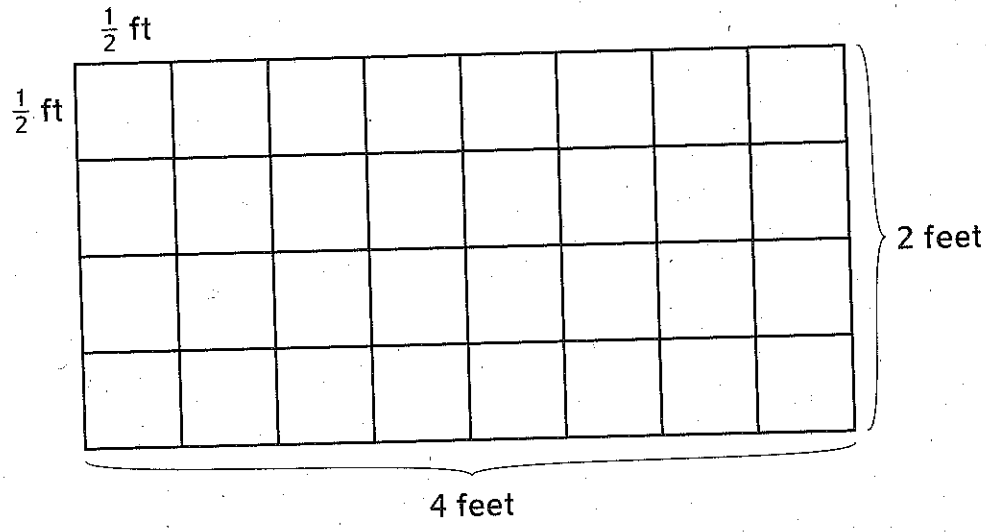
_____ squares with a side length of $\frac{1}{4}$ foot fit into 1 square foot.

(2) How many squares of $\frac{1}{3}$ foot side length would fit into 1 square foot? Draw lines on the picture to help.



_____ squares with a side length of $\frac{1}{3}$ foot fit into 1 square foot.

(3) The students in a fifth grade class want to design a paper quilt on a bulletin board. Each quilt square is $\frac{1}{2}$ foot on each side. The bulletin board is 4 feet wide and 2 feet long.



(A) It takes _____ squares to cover the board.

(B) It takes _____ squares to cover 1 square foot.

(C) The area of the board is _____ square feet.

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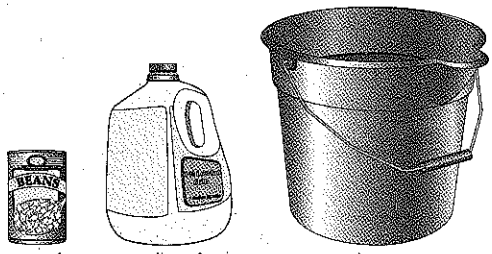
Practice Set 5



can of beans | gallon of milk | large bucket

(1) Of the objects above, which has the smallest volume? _____

(2) Which has the greatest volume? _____

---

(3) List 3 other items that have volume.

_____, _____, and _____

(4) **Writing/Reasoning** How do you know these items have volume?

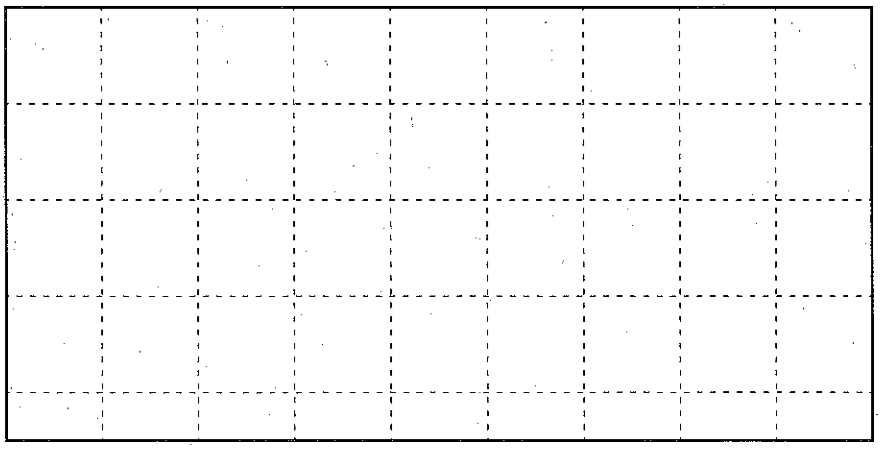
_____

_____

_____

Find the area.

(5)



Area = _____ square inches.

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Practice Set 6

① **Writing/Reasoning** Anna says that a square can have volume. Is she right or wrong? Explain.

_____

_____

_____

② Leah decided to find the volume of a box using cubes.
She fit 8 layers of cubes with 9 cubes in each layer into her box.

The volume of her box is _____ cubes.

③ **Writing/Reasoning** Tim and Mary each had a box. Tim's box could hold 250 beans. Mary's box could hold 400 beans. Whose box has a greater volume? Explain.

_____

_____

_____

④ If you were at home and needed to compare the volume of two objects using non-standard units, what are 3 objects you could fill the objects with to find volume?

_____, _____, and _____

Evaluate.

⑤ $100 + (30 - 15) =$ _____

⑥ $(50 - 46) * 7 =$ _____

⑦ $(150 + 150) - (45 + 15) =$ _____

⑧ $70 - (16/4 + 3) =$ _____

⑨ $(888 - 774) + (615 - 554) =$ _____

⑩ $8 * (100 - 96) =$ _____

Convert each unit of measurement.

⑪ 1 meter = _____ centimeters

⑫ 1 foot = _____ inches

⑬ 1 liter = _____ milliliters

⑭ 200 centimeters = _____ millimeters

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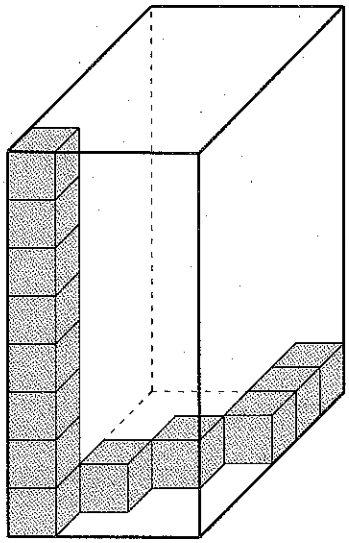
Practice Set 7

The cubes in each rectangular prism are the same size. Each prism has at least one stack of cubes that goes up to the top. Find the total number of cubes needed to completely fill each prism. Then find the volume of each prism.

1

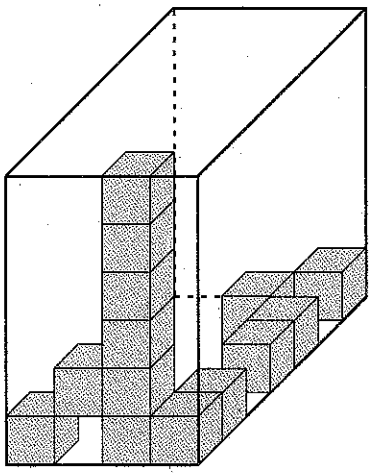


Cubes needed to fill Prism A:

_____ cubes

Volume of Prism A: _____ units^3

2

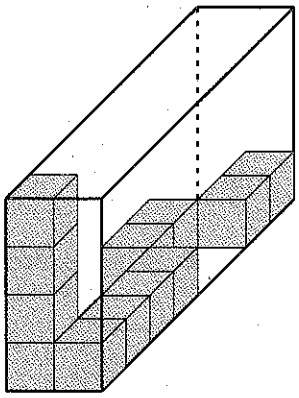


Cubes needed to fill Prism C:

_____ cubes

Volume of Prism C: _____ units^3

3

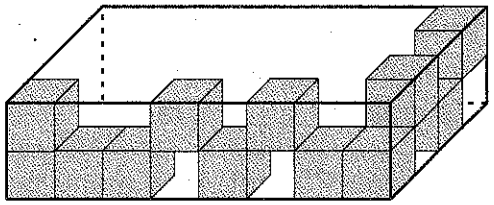


Cubes needed to fill Prism B:

_____ cubes

Volume of Prism B: _____ units^3

4



Cubes needed to fill Prism D:

_____ cubes

Volume of Prism C: _____ units^3

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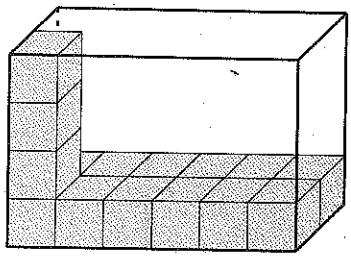
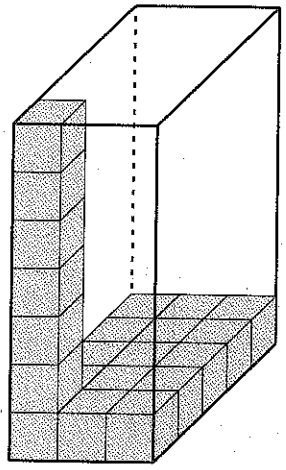
Practice Set 8

Find the volume of each box.

① 

Volume: _____ units^3

② 

Volume: _____ units^3

---

③ Natasha filled a box with one layer of 8 unit cubes. She figured out the box could hold 7 layers. The volume of Natasha's box is _____ units^3.

④ Amy determines that the volume of her box is 100 units^3. If one layer of cubes is 20 cubes, how many layers of cubes fit in her box? _____ layers

---

⑤ A snail crawled 36 inches in one hour. How many feet did the snail crawl? _____ feet

⑥ Andrea ran 90 feet. How many yards did she run? _____ yards

⑦ Tom's poster measured 200 cm across. How many meters across is Tom's poster? _____ meters

⑧ A pencil is $\frac{1}{2}$ a foot long. How many inches is the pencil? _____ inches

---

⑨ $8 * [6 + (9 - 3)] =$ _____

⑩ $175 + [18 / (199 - 196)] =$ _____

⑪ $1{,}000 - [7 * (84 + 16)] =$ _____

⑫ $[(5 + 1) * (20 / 5)] + 33 =$ _____

⑬ $10 - [(100 / 20) + 1] =$ _____

⑭ $567 + [(90 + 4) - (80 + 6)] =$ _____

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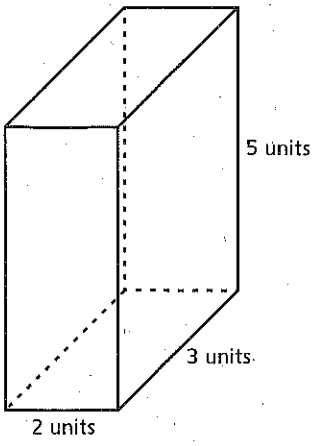
Practice Set 9

Find the volume of each prism.

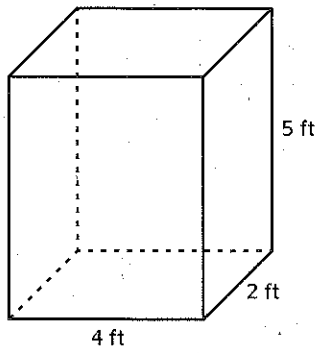
Remember the two formulas to find the volume of a prism:

***V* = *l* × *w* × *h* (volume = length × width × height)**

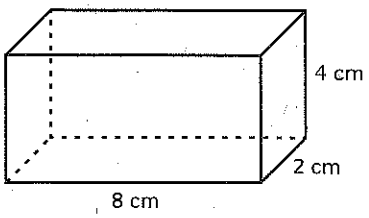
***V* = *B* × *h* (volume = area of the base × height)**

① 

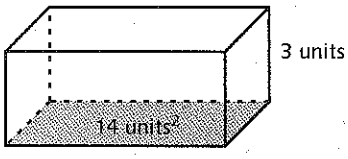
Volume: _____ units^3

② 

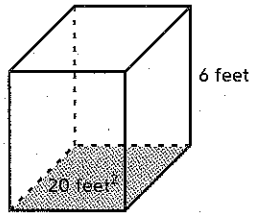
Volume: _____ feet^3

③ 

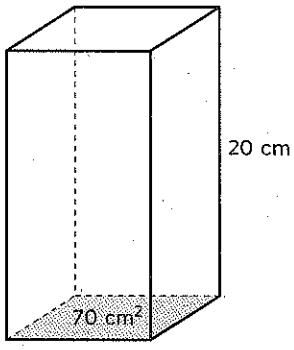
Volume: _____ cm^3

④ 

Volume: _____ units^3

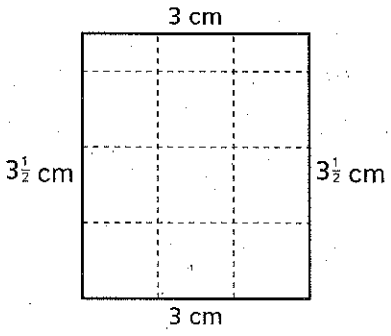
⑤ 

Volume: _____ feet^3

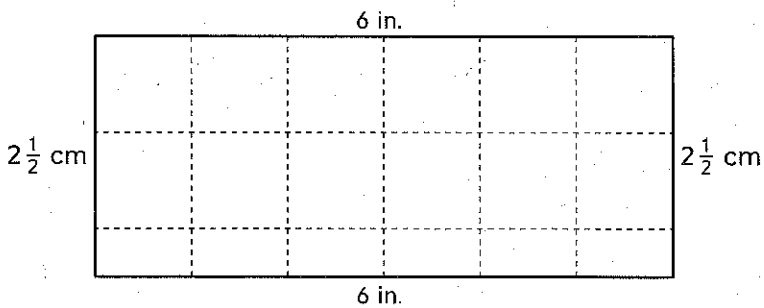
⑥ 

Volume: _____ cm^3

Find the area of each rectangle.

⑦ 

Area = _____ cm^2

⑧ 

Area = _____ in^2

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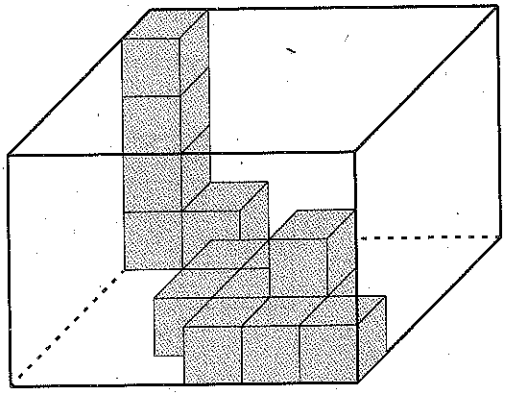
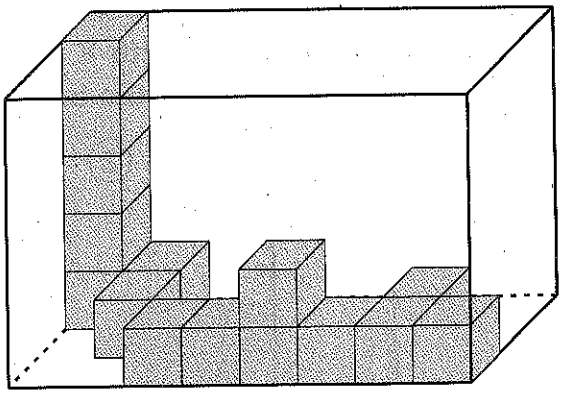
Practice Set 10

Find the volume of each prism.

1. 

Volume = _____ cubic units

2. 

Volume = _____ cubic units

Circle the most appropriate unit of measure for each object.

3	the volume of a cereal box	cubic inches	cubic feet	cubic yards
4	the volume of a classroom	cubic inches	cubic feet	cubic yards
5	the volume of a juice box	cubic inches	cubic feet	cubic yards
6	the volume of a closet	cubic inches	cubic feet	cubic yards
7	the volume of a train car	cubic inches	cubic feet	cubic yards

---

Convert the units.

8. 1 cubic yard = _____ cubic feet

9. 1 cubic m = _____ cubic cm

10. 1 cubic foot = _____ cubic inches

Find the volume of a rectangular prism with the given dimensions.

11. length = 9 meters
height = 3 meters
width = 2 meters
_____ m^3

12. length = 4 meters
height = 10 meters
width = 6 meters
_____ m^3

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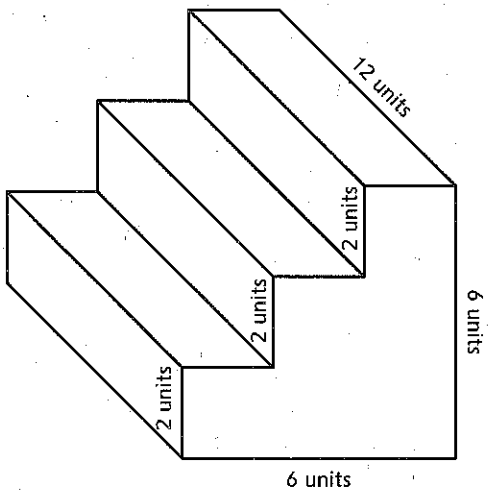
Practice Set 11

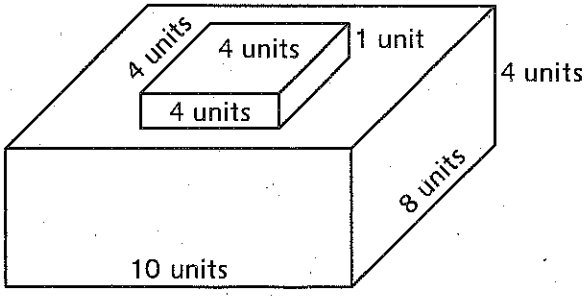
Find the volume of each figure below. Then name one real-world object that the figure could model.

① 

Volume = _____ cubic units

This figure could model . . .

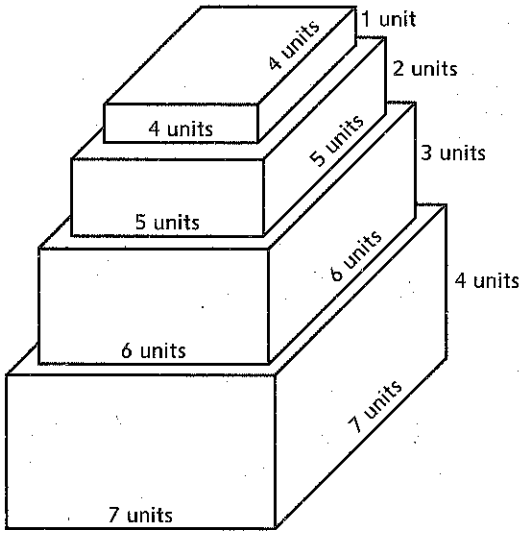
_____

② 

Volume = _____ cubic units

This figure could model . . .

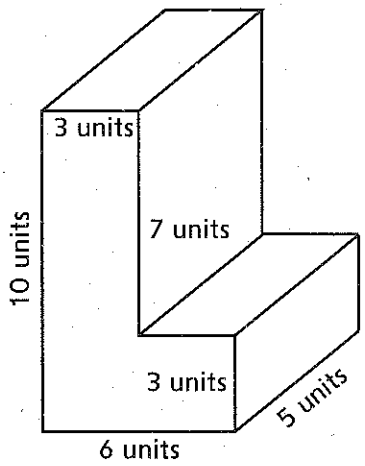
_____

③ 

Volume = _____ cubic units

This figure could model . . .

_____

④ 

Volume = _____ cubic units

This figure could model . . .

_____

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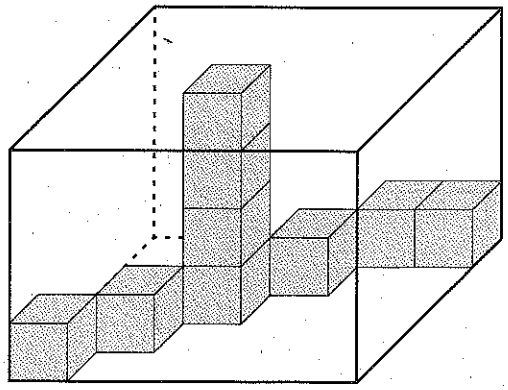
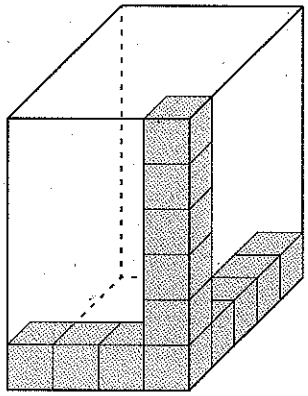
Practice Set 12

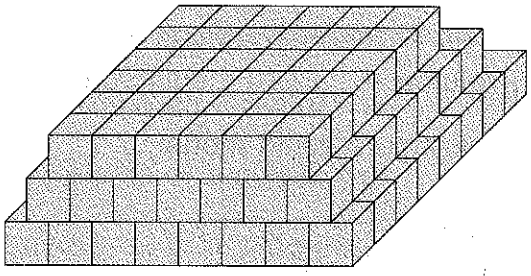
Find the volume of each shape.

1. 

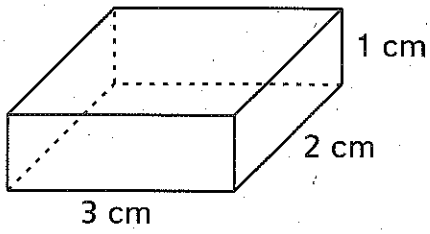
$V =$ _____ cm^3

2. 

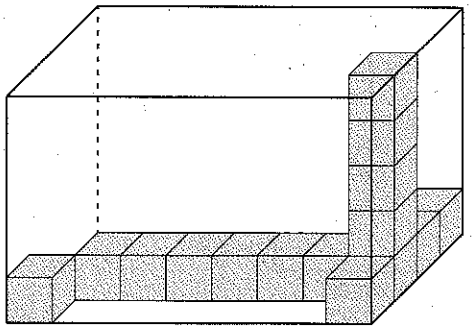
$V =$ _____ cm^3

3. 

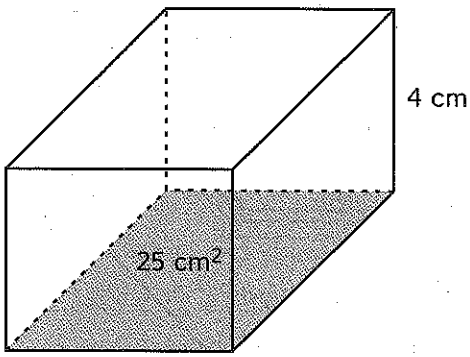
$V =$ _____ cm^3

4. 

$V =$ _____ cm^3

5. 

$V =$ _____ cm^3

6. 

$V =$ _____ cm^3