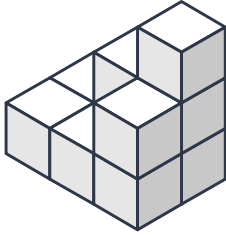


Solid Figures and Volume

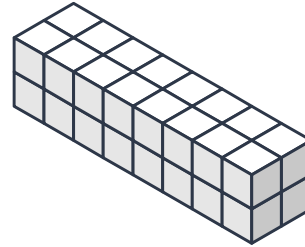
Unit Review (page 1 of 2)

1. Each cube is 1 cubic unit. What is the volume of the figure?



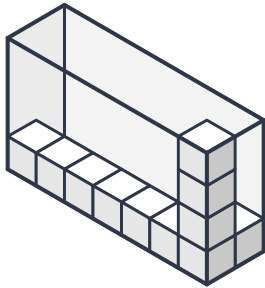
Volume = _____
cubic units

2. Each cube is 1 cubic inch. Write the volume of the full box and its unit.



Volume: _____

3. How many unit cubes fill the box? Fill in the blanks.

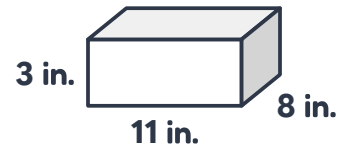


Bottom layer: _____

Layers: _____

Volume: _____
cubic units

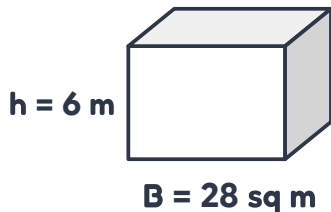
4. Use $V = l \times w \times h$ to find the volume.



not to scale

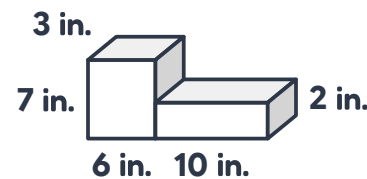
$V =$ _____
cubic in.

5. Use $V = B \times h$ to find the volume.



$V =$ _____
cubic m

6. The shape is made of two rectangular prisms. Find its volume.



$V =$ _____
cubic in.

Solid Figures and Volume

Unit Review (page 2 of 2)

7. Solve the story problem.

A shoe box is **13 inches** long, **7 inches** wide and **5 inches** tall. What is its volume?

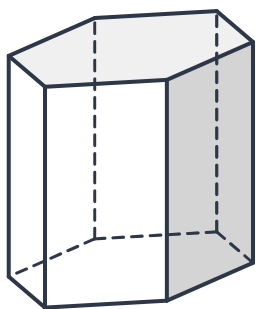
_____ cubic inches

8. Solve the story problem.

A puppet stage is made of two boxes. One box is **20 in. by 4 in. by 9 in.** The other is **10 in. by 4 in. by 2 in.** What is the total volume?

_____ cubic inches

9. How many faces, edges and vertices does the solid have?



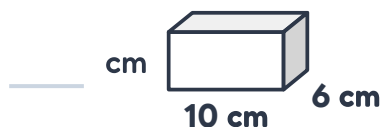
_____ faces
 _____ edges
 _____ vertices

10. Name the solid the net folds into. Then circle each pattern that folds into a cube.





11. Find the missing edge. Then write the edges of a box with the same volume and different edge lengths.



$V = 300$
cubic cm

not to scale

A different box:

_____ $\times$ _____ $\times$ _____ cm

12. Circle the measure the story asks for. Then solve. Write the unit.

Lace goes around the edge of a placemat. The placemat is **18 in. long** and **12 in. wide**. How much lace goes around it?

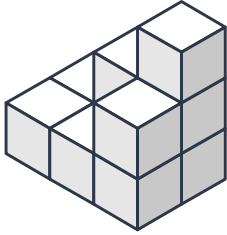
perimeter area volume

Answer: _____

Solid Figures and Volume

Unit Review (page 1 of 2)

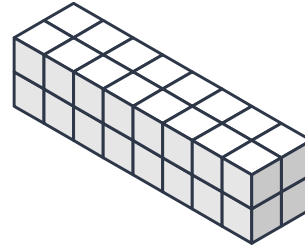
1. Each cube is 1 cubic unit. What is the volume of the figure?



Volume = 10
cubic units

Lesson 11.3 · Unit cubes and cubic units

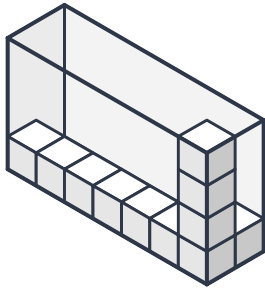
2. Each cube is 1 cubic inch. Write the volume of the full box and its unit.



Volume: 32 cubic inches
or 32 cubic in.

Lesson 11.4 · Count cubes to find volume

3. How many unit cubes fill the box? Fill in the blanks.



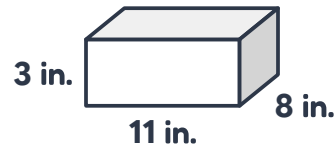
Bottom layer: 14

Layers: 4

Volume: 56
cubic units

Lesson 11.5 · Bottom layer times layers

4. Use $V = l \times w \times h$ to find the volume.

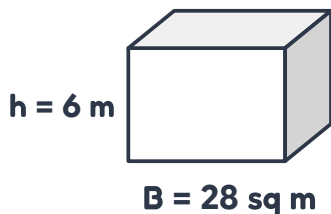


not to scale

$V =$ 264
cubic in.

Lesson 11.6 · The volume formulas

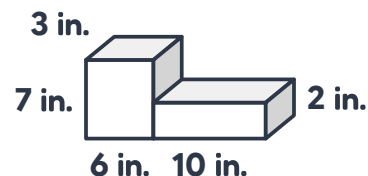
5. Use $V = B \times h$ to find the volume.



$V =$ 168
cubic m

Lesson 11.6 · The volume formulas

6. The shape is made of two rectangular prisms. Find its volume.



$V =$ 186
cubic in.

One way: $126 + 60$

Lesson 11.8 · Two prisms together

Solid Figures and Volume

Unit Review (page 2 of 2)

7. Solve the story problem.

A shoe box is **13 inches** long, **7 inches** wide and **5 inches** tall. What is its volume?

455 cubic inches

Lesson 11.9 · Volume stories

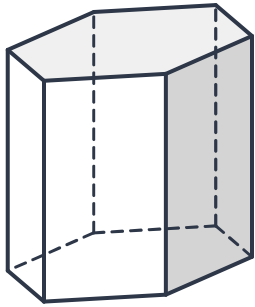
8. Solve the story problem.

A puppet stage is made of two boxes. One box is **20 in. by 4 in. by 9 in.** The other is **10 in. by 4 in. by 2 in.** What is the total volume?

800 cubic inches

Lesson 11.9 · Volume stories

9. How many faces, edges and vertices does the solid have?



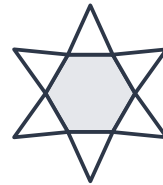
8 faces

18 edges

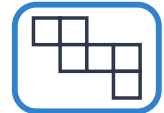
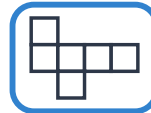
12 vertices

Lesson 11.1 · Solid figures

10. Name the solid the net folds into. Then circle each pattern that folds into a cube.

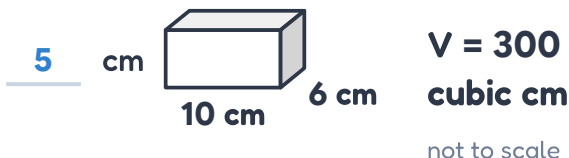


hexagonal pyramid



Lesson 11.2 · Nets of solids

11. Find the missing edge. Then write the edges of a box with the same volume and different edge lengths.



A different box:

One way

3 × 10 × 10 cm

Lesson 11.7 · Missing edges and same volume

12. Circle the measure the story asks for. Then solve. Write the unit.

Lace goes around the edge of a placemat. The placemat is **18 in. long** and **12 in. wide**. How much lace goes around it?

perimeter area volume

Answer: 60 inches

or 60 in.

Lesson 11.10 · Perimeter, area or volume