6th Grade
Worksheet Bundle

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Study Island 6th Grade Language Arts - Punctuation

Question 1 .

Which of the following sentences is punctuated correctly?

- **A.** The weary, traveler sought refuge from the storm underneath (a canopy of trees, leafy and green).
- **B.** The weary traveler sought refuge from the storm, underneath a canopy of trees, leafy and green.
- **C.** The weary traveler sought refuge from the storm underneath a canopy of trees, leafy and green.
- **D.** The weary traveler sought refuge from—the storm underneath a canopy of trees, leafy and green.

Question 2 .

Which of the following sentences is punctuated correctly?

- **A.** The deepest, place in the ocean is about 7, miles down the Mariana trench in the Pacific Ocean
- **B.** The deepest place in the ocean is about 7 miles down the Mariana trench in the Pacific Ocean.
- **C.** The deepest, place in the ocean, is about 7, miles down the Mariana trench in the Pacific Ocean
- **D.** The deepest place in the ocean, is about 7, miles down the Mariana trench, in the Pacific Ocean.

Question 3 .

Which of the following sentences is punctuated correctly?

- **A.** Peter—an accomplished chef enjoyed making different kinds of food.
- **B.** Peter, an accomplished chef, enjoyed making different kinds of food.
- **C.** Peter an accomplished chef enjoyed making different kinds of food.
- **D.** Peter an accomplished chef enjoyed (making different, kinds of food).

Question 4 .

Which of the following sentences is punctuated correctly?

- **A.** Frozen to Mai's sore, tongue was a Popsicle heavily, frosted with ice crystals.
- **B.** Frozen to Mai's sore tongue—was a Popsicle, heavily frosted with ice crystals.
- **C.** Frozen to Mai's sore tongue (was a Popsicle) heavily frosted with ice crystals.
- **D.** Frozen to Mai's sore tongue was a Popsicle, heavily frosted with ice crystals.

Question 5 .

Which of the following sentences is punctuated correctly?

- **A.** Clara chased the red trolley, which was racing away from her, down the bustling street.
- **B.** Clara chased (the red trolley) which was racing away from her down the bustling, street.
- **C.** Clara chased the red, trolley which was racing away from her—down the bustling street.
- **D.** Clara chased—the red trolley, which was racing away from her down the bustling street.

Question 6 .

Which of the following sentences is punctuated correctly?

- **A.** Yvette could not believe—that she forgot to buy flour—an item on her shopping list.
- **B.** Yvette could not believe, that she forgot to buy flour an item on her shopping list.
- **C.** Yvette could not believe that she forgot to buy flour—an item on her shopping list.
- **D.** Yvette could not believe (that she forgot to buy flour) an item on her shopping list.

Question 7 .

Which of the following sentences is punctuated correctly?

- **A.** The ocean floor contains mountains, canyons, and plains even larger than those on land.
- **B.** The ocean, floor contains mountains, canyons, and plains even larger than those on land
- **C.** The ocean, floor contains mountains canyons and plains even larger than those on land.
- **D.** The ocean, floor contains mountains canyons and plains even larger than those on land

Question 8 .

Which of the following sentences is punctuated correctly?

- **A.** (From her bedroom,) Hayden could see the entire city including the mayor's house, and the park.
- **B.** From her bedroom, Hayden could see the entire city (including the mayor's house and the park).
- **C.** From her bedroom,—Hayden could see the entire city—including the mayor's house and the park.
- **D.** From her bedroom, Hayden could see the entire city, (including) the mayor's house, and the park.

Question 9 .

Which of the following sentences is punctuated correctly?

- **A.** President Nixon told the astronauts, "For all of us Americans, this has to be the proudest day of our lives."
- **B.** President Nixon told the astronauts For all of us Americans this has to be the proudest day of our lives.
- **C.** President Nixon told the astronauts, "For all of us Americans this has to be the proudest day of our lives"
- **D.** President Nixon told the astronauts "For all of us Americans, this has to be the proudest day of our lives"

Question 10 .

Directions: Select the correct answer from each drop-down menu.

Choose the word that correctly completes the sentence.

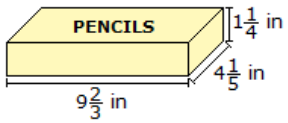
The YWCA

The Young Women's Christian Association [▼] is the oldest and largest women's organization in the United States. The YWCA focuses on helping women be strong and [▼] the YWCA also promotes racial equality. The organization started in 1858, and today, more than two million people participate in YWCA programs.

Study Island 6th Grade Geometry - Volume

Question 1 .

Candice bought a pencil box, shown below, to take with her to school.

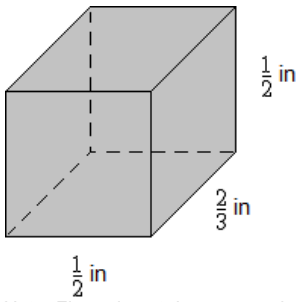


**Picture not drawn to scale*

What is the volume of the pencil box?

- **A.** $40\frac{3}{5}$ cu in
- **B.** $101\frac{1}{2}$ cu in
- **C.** $50\frac{3}{4}$ cu in
- **D.** $15\frac{7}{60}$ cu in

Question 2 .



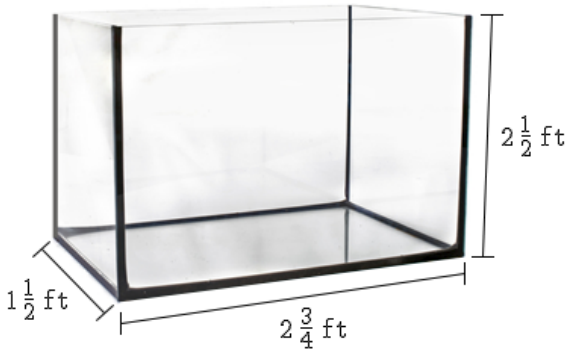
Note: Figure is not drawn to scale.

What is the volume of the rectangular prism?

- **A.** $\frac{2}{3}$ cu in
- **B.** $\frac{1}{2}$ cu in
- **C.** $\frac{1}{6}$ cu in
- **D.** $\frac{1}{3}$ cu in

Question 3 .

Betty purchased a fish tank. The length, width, and height of the fish tank are shown below.



Picture not drawn to scale

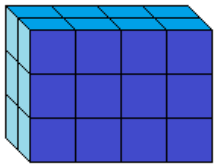
What is the volume of the fish tank?

- **A.** $10\frac{5}{32}$ cu ft
- **B.** $6\frac{3}{4}$ cu ft
- **C.** $10\frac{5}{16}$ cu ft
- **D.** $11\frac{5}{16}$ cu ft

Question 4 .

Directions: Select all the correct answers.

The prism below is made of cubes which measure $\frac{1}{6}$ of a centimeter on one side.

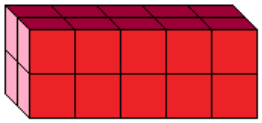


Which of the following represents the volume of the prism?

- $\frac{1}{216}$ cubic cm $\times$ 24
- $\left(4 \times \frac{1}{6}\text{cm}\right) + \left(2 \times \frac{1}{6}\text{cm}\right) + \left(3 \times \frac{1}{6}\text{cm}\right)$
- $\left(4 \times \frac{1}{6}\text{cm}\right) \times \left(2 \times \frac{1}{6}\text{cm}\right) \times \left(3 \times \frac{1}{6}\text{cm}\right)$
- $\frac{4}{3}$ cubic cm
- $\frac{3}{2}$ cubic cm
- $\frac{1}{9}$ cubic cm
- $\frac{1}{18}$ cubic cm $\times$ 24

Question 5 .

The prism below is made of cubes which measure $\frac{1}{4}$ of a centimeter on one side. What is the volume?

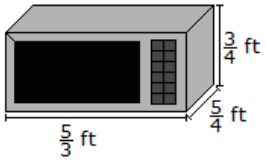


Note: Figure is not drawn to scale.

- **A.** 5 cubic cm
- **B.** $\frac{9}{4}$ cubic cm
- **C.** $\frac{5}{16}$ cubic cm
- **D.** 20 cubic cm

Question 6 .

Hannah measured the length, width, and height of her microwave in order to determine if it would fit in the space above her stove. Her measurements are shown below.



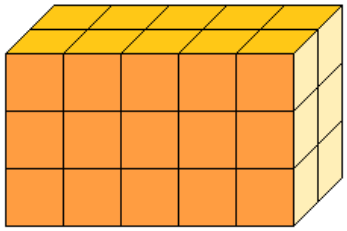
**Picture not drawn to scale*

What is the volume of the microwave?

- **A.** $1\frac{3}{4}$ cu ft
- **B.** $2\frac{11}{12}$ cu ft
- **C.** $3\frac{2}{3}$ cu ft
- **D.** $1\frac{9}{16}$ cu ft

Question 7 .

The prism below is made of cubes which measure $\frac{1}{5}$ of an inch on one side. What is the volume of the prism?

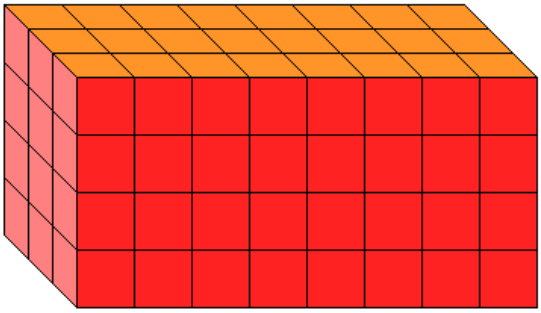


Note: Figure is not drawn to scale.

- **A.** 3 cu in
- **B.** $\frac{12}{25}$ cu in
- **C.** $\frac{25}{6}$ cu in
- **D.** $\frac{6}{25}$ cu in

Question 8 .

The prism below is made of cubes which measure $\frac{1}{2}$ of a foot on one side. What is the volume of the prism?

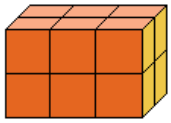


Note: Figure is not drawn to scale.

- **A.** 16 cu ft
- **B.** 48 cu ft
- **C.** 18 cu ft
- **D.** 12 cu ft

Question 9 .

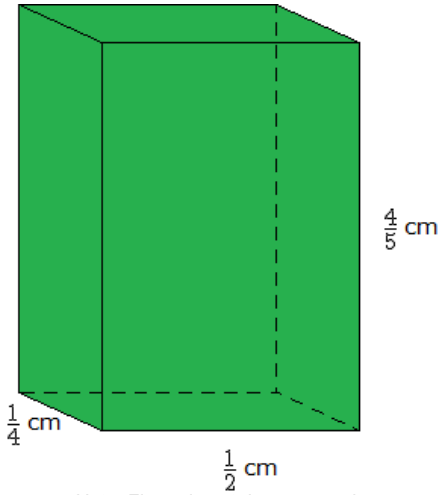
The prism below is made of cubes which measure $\frac{1}{4}$ of an inch on one side. What is the volume?



Note: Figure is not drawn to scale.

- **A.** $\frac{7}{4}$ cubic in
- **B.** 3 cubic in
- **C.** $\frac{3}{16}$ cubic in
- **D.** 12 cubic in

Question 10 .



Note: Figure is not drawn to scale.

What is the volume of the rectangular prism?

- **A.** $\frac{1}{5}$ cu cm
- **B.** $\frac{2}{5}$ cu cm
- **C.** $\frac{1}{8}$ cu cm
- **D.** $\frac{1}{10}$ cu cm

Answers: Language Arts - Punctuation

1. C
2. B
3. B
4. D
5. A
6. C
7. A
8. B
9. A
10. --

Explanations: Language Arts - Punctuation

1. The phrase "leafy and green" is considered nonessential. This means that it does not change the meaning of the sentence if removed. The phrase is correctly set apart from the sentence by a comma. Parentheses and dashes are other ways to set off nonessential phrases. This phrase describes the trees under which the traveler sits.

2. There shouldn’t be any commas in the sentence since it is one long independent clause. Also, don’t forget the period at the end of the sentence.

3. The phrase "an accomplished chef" is considered nonessential. This means that it does not change the meaning of the sentence if it is removed. The phrase is correctly set apart from the sentence by a pair of commas. Dashes and parentheses are other ways to set off nonessential phrases. This phrase describes Peter's profession.

4. The phrase "heavily frosted with ice crystals" is considered nonessential. This means that it does not change the meaning of the sentence if removed. The phrase is correctly set apart from the sentence by a comma. Parentheses and dashes are other ways to set off nonessential phrases. This phrase describes the Popsicle, which is covered with ice crystals.

5. The phrase "which was racing away from her" is considered nonessential. This means that it does not change the meaning of the sentence if it is removed. The phrase is correctly set apart from the sentence by a pair of commas. Dashes and parentheses are other ways to set off nonessential phrases. This phrase describes what the trolley is doing—it is racing away from Clara. The word "which" usually indicates nonessential information.

6. The phrase "an item on her shopping list" is considered nonessential. This means that is does not change the meaning of the sentence if it is removed. The phrase is correctly set apart from the sentence by a dash. Parentheses and commas are other ways to set off nonessential phrases. This phrase provides information about the flour—it is an item on Yvette's shopping list. The word "that" indicates the beginning of an essential clause, so it does not need a preceding comma or dash.

7. With more than two items in a series, make sure that each item is separated by a comma. Also, don’t forget the period at the end of the sentence.

8. The phrase "including the mayor's house and the park" is considered nonessential. This means that it does not change the meaning of the sentence if removed. The phrase is correctly set apart from the sentence by a pair of parentheses. Parentheses and dashes are other ways to set off nonessential phrases. This phrase provides information about the view in Hayden's bedroom.

9. The correct answer should have quotation marks around what the president said. There should be a comma after the opening phrase to introduce the quote. Also, there should be a comma after the introductory phrase *inside* the quote ("For all of us Americans"). Also, don’t forget the period at the end of the sentence. It should go inside of the quotation marks.

10. In the first blank, the initials "YMCA" need parentheses around them. These four initials represent the name of the organization, which is spelled out at the beginning of the sentence.
    In the second blank, a semicolon is needed to separate the two independent clauses because there is no coordinating conjunction.

Answers: Geometry - Volume

1. C
2. C
3. C
4. --
5. C
6. D
7. D
8. D
9. C
10. D

Explanations: Geometry - Volume

1. The formula for the volume of a rectangular prism is shown below.

$$\mathrm{V} = \text{length} \times \text{width} \times \text{height}$$

To find the volume of the pencil box, substitute the values given in the question into the formula.

$$\begin{aligned}
\mathrm{V} &= \left(9\tfrac{2}{3}\text{ in}\right) \times \left(4\tfrac{1}{5}\text{ in}\right) \times \left(1\tfrac{1}{4}\text{ in}\right) \\
&= \left(\tfrac{29}{3}\text{ in}\right) \times \left(\tfrac{21}{5}\text{ in}\right) \times \left(\tfrac{5}{4}\text{ in}\right) \\
&= \tfrac{3{,}045}{60}\text{ cu in} \\
&= \tfrac{203}{4}\text{ cu in} \\
&= 50\tfrac{3}{4}\text{ cu in}
\end{aligned}$$

2. The formula for the volume of a rectangular prism is shown below.

$$V = l \cdot w \cdot h$$

To find the volume of the rectangular prism, substitute the values given in the question into the formula.

$$\begin{aligned}
V &= \left(\tfrac{1}{2}\text{ in}\right) \cdot \left(\tfrac{2}{3}\text{ in}\right) \cdot \left(\tfrac{1}{2}\text{ in}\right) \\
&= \tfrac{2}{12}\text{ cu in} \\
&= \tfrac{1}{6}\text{ cu in}
\end{aligned}$$

3. The formula for the volume of a rectangular prism is shown below, where B is the area of the base and h is the height of the prism.

$$V = Bh$$

First, find the area of the base, B, of the fish tank. The fish tank has a length of $2\frac{3}{4}$ feet and a width of $1\frac{1}{2}$ feet. So, the area of its base can be calculated as shown below.

$$\begin{aligned} B &= \text{length} \times \text{width} \\ &= 2\tfrac{3}{4}\,\text{ft} \times 1\tfrac{1}{2}\,\text{ft} \\ &= \tfrac{11}{4}\,\text{ft} \times \tfrac{3}{2}\,\text{ft} \\ &= \tfrac{33}{8}\,\text{sq ft} \end{aligned}$$

Next, find the volume, V, of the fish tank. Substitute $B = \frac{33}{8}$ square feet and $h = 2\frac{1}{2}$ feet into $V = Bh$.

$$\begin{aligned} V &= Bh \\ &= \tfrac{33}{8}\,\text{sq ft} \times 2\tfrac{1}{2}\,\text{ft} \\ &= \tfrac{33}{8}\,\text{sq ft} \times \tfrac{5}{2}\,\text{ft} \\ &= \tfrac{165}{16}\,\text{cu ft} \\ &= 10\tfrac{5}{16}\,\text{cu ft} \end{aligned}$$

So, the volume of the fish tank is $10\frac{5}{16}$ **cu ft**.

4. The volume of the prism can be found in two ways.
One way is to first find the measurements of the length, width, and height.

$$\text{length} = 4 \times \tfrac{1}{6}\text{ cm}$$

$$\text{width} = 2 \times \tfrac{1}{6}\text{ cm}$$

$$\text{height} = 3 \times \tfrac{1}{6}\text{ cm}$$

Now, substitute these measurements into the formula of the volume of a prism.

$$\begin{aligned}\text{Volume} &= \left(4 \times \tfrac{1}{6}\text{ cm}\right) \times \left(2 \times \tfrac{1}{6}\text{ cm}\right) \times \left(3 \times \tfrac{1}{6}\text{ cm}\right)\\ &= \tfrac{4}{6}\text{ cm} \times \tfrac{2}{6}\text{ cm} \times \tfrac{3}{6}\text{ cm}\\ &= \tfrac{2}{3}\text{ cm} \times \tfrac{1}{3}\text{ cm} \times \tfrac{1}{2}\text{ cm}\\ &= \tfrac{2}{18}\text{ cubic cm}\\ &= \tfrac{1}{9}\text{ cubic cm}\end{aligned}$$

Another way is to first find the volume of one cube.

$$\tfrac{1}{6}\text{ cm} \times \tfrac{1}{6}\text{ cm} \times \tfrac{1}{6}\text{ cm} = \tfrac{1}{216}\text{ cubic cm}$$

Now, multiply the volume of one cube by the number of cubes.

$$\begin{aligned}\tfrac{1}{216}\text{ cubic cm} \times (4 \times 2 \times 3) &= \tfrac{1}{216}\text{ cubic cm} \times 24\\ &= \tfrac{24}{216}\text{ cubic cm}\\ &= \tfrac{1}{9}\text{ cubic cm}\end{aligned}$$

Therefore, the following each represent the volume of the prism.

$$\left(4 \times \tfrac{1}{6}\text{cm}\right) \times \left(2 \times \tfrac{1}{6}\text{cm}\right) \times \left(3 \times \tfrac{1}{6}\text{cm}\right)$$

$$\tfrac{1}{216}\text{ cubic cm} \times 24$$

$$\tfrac{1}{9}\text{ cubic cm}$$

5. The volume of a prism can be determined using the formula below.

$$\text{Volume} = \text{length} \times \text{width} \times \text{height}$$

Since each cube measures $\frac{1}{4}$ of a centimeter on one side, then the dimensions of the prism are shown below.

$$\text{length} = 5 \times \tfrac{1}{4}\text{ cm}$$

$$\text{width} = 2 \times \tfrac{1}{4}\text{ cm}$$

$$\text{height} = 2 \times \tfrac{1}{4}\text{ cm}$$

Substitute these dimensions into the volume formula to determine the volume of the prism.

$$\begin{aligned}\text{Volume} &= \left(5 \times \tfrac{1}{4}\text{ cm}\right) \times \left(2 \times \tfrac{1}{4}\text{ cm}\right) \times \left(2 \times \tfrac{1}{4}\text{ cm}\right)\\ &= \tfrac{5}{4}\text{ cm} \times \tfrac{2}{4}\text{ cm} \times \tfrac{2}{4}\text{ cm}\\ &= \tfrac{5}{4}\text{ cm} \times \tfrac{1}{2}\text{ cm} \times \tfrac{1}{2}\text{ cm}\\ &= \tfrac{5}{16}\text{ cubic cm}\end{aligned}$$

6. The formula for the volume of a rectangular prism is shown below.

$$\text{V} = \text{length} \times \text{width} \times \text{height}$$

To find the volume of the microwave, substitute the values given in the question into the formula.

$$\begin{aligned}\text{V} &= \left(\tfrac{5}{3}\,\text{ft}\right) \times \left(\tfrac{5}{4}\,\text{ft}\right) \times \left(\tfrac{3}{4}\,\text{ft}\right) \\ &= \tfrac{75}{48}\,\text{cu ft} \\ &= \tfrac{25}{16}\,\text{cu ft} \\ &= 1\tfrac{9}{16}\,\text{cu ft}\end{aligned}$$

7. The volume of a rectangular prism can be found using the formula below.

$$\text{Volume} = \text{length} \times \text{width} \times \text{height}$$

The volume of the prism can be found in two ways - either by multiplying the volume of each cube by the number of cubes or by using the volume formula.

To find the volume of the rectangular prism the first way, find the volume of one cube.

$$\tfrac{1}{5}\,\text{in} \times \tfrac{1}{5}\,\text{in} \times \tfrac{1}{5}\,\text{in} = \tfrac{1}{125}\,\text{cu in}$$

Next, count the number of cubes inside the prism. Since there are 3 layers of cubes and each layer has 10 cubes, the total number of cubes inside the prism is calculated as shown below.

$$3 \times 10 = 30$$

Now, multiply the volume of one cube by the number of cubes.

$$\begin{aligned}\tfrac{1}{125}\,\text{cu in} \times 30 &= \tfrac{30}{125}\,\text{cu in} \\ &= \tfrac{6}{25}\,\text{cu in}\end{aligned}$$

The other way to find the volume of a rectangular prism is to find the length, width and height of the prism by multiplying the number of cubes for each measurement by the length of one cube.

$$\begin{aligned}\text{length} &= 5 \times \tfrac{1}{5}\,\text{in} \\ \text{width} &= 2 \times \tfrac{1}{5}\,\text{in} \\ \text{height} &= 3 \times \tfrac{1}{5}\,\text{in}\end{aligned}$$

Now, substitute these measurements into the formula of the volume of a prism.

$$\begin{aligned}\text{Volume} &= \left(5 \times \tfrac{1}{5}\,\text{in}\right) \times \left(2 \times \tfrac{1}{5}\,\text{in}\right) \times \left(3 \times \tfrac{1}{5}\,\text{in}\right) \\ &= 1\,\text{in} \times \tfrac{2}{5}\,\text{in} \times \tfrac{3}{5}\,\text{in} \\ &= \tfrac{6}{25}\,\text{cu in}\end{aligned}$$

The volume of the prism found by both the methods is the same.

So, the volume of the prism is $\frac{6}{25}$ **cu in**.

8. The volume of a rectangular prism can be found using the formula below.

$$\text{Volume} = \text{length} \times \text{width} \times \text{height}$$

The volume of the prism can be found in two ways - either by multiplying the volume of each cube by the number of cubes or by using the volume formula.

To find the volume of the rectangular prism the first way, find the volume of one cube.

$$\frac{1}{2}\,\text{ft} \times \frac{1}{2}\,\text{ft} \times \frac{1}{2}\,\text{ft} = \frac{1}{8}\,\text{cu ft}$$

Next, count the number of cubes inside the prism. Since there are 4 layers of cubes and each layer has 24 cubes, the total number of cubes inside the prism is calculated as shown below.

$$4 \times 24 = 96$$

Now, multiply the volume of one cube by the number of cubes.

$$\begin{aligned}\frac{1}{8}\,\text{cu ft} \times 96 &= \frac{96}{8}\,\text{cu ft} \\ &= 12\,\text{cu ft}\end{aligned}$$

The other way to find the volume of a rectangular prism is to find the length, width and height of the prism by multiplying the number of cubes for each measurement by the length of one cube.

$$\text{length} = 8 \times \frac{1}{2}\,\text{ft}$$

$$\text{width} = 3 \times \frac{1}{2}\,\text{ft}$$

$$\text{height} = 4 \times \frac{1}{2}\,\text{ft}$$

Now, substitute these measurements into the formula of the volume of a prism.

$$\begin{aligned}\text{Volume} &= \left(8 \times \frac{1}{2}\,\text{ft}\right) \times \left(3 \times \frac{1}{2}\,\text{ft}\right) \times \left(4 \times \frac{1}{2}\,\text{ft}\right) \\ &= 4\,\text{ft} \times \frac{3}{2}\,\text{ft} \times 2\,\text{ft} \\ &= 12\,\text{cu ft}\end{aligned}$$

The volume of the prism found by both the methods is the same.

So the volume of the prism is **12 cu ft**.

9. The volume of a prism can be determined using the formula below.

$$\text{Volume} = \text{length} \times \text{width} \times \text{height}$$

Since each cube measures $\frac{1}{4}$ of an inch on one side, then the dimensions of the prism are shown below.

$$\text{length} = 3 \times \frac{1}{4}\,\text{in}$$

$$\text{width} = 2 \times \frac{1}{4}\,\text{in}$$

$$\text{height} = 2 \times \frac{1}{4}\,\text{in}$$

Substitute these dimensions into the volume formula to determine the volume of the prism.

$$\begin{aligned}\text{Volume} &= \left(3 \times \frac{1}{4}\,\text{in}\right) \times \left(2 \times \frac{1}{4}\,\text{in}\right) \times \left(2 \times \frac{1}{4}\,\text{in}\right) \\ &= \frac{3}{4}\,\text{in} \times \frac{2}{4}\,\text{in} \times \frac{2}{4}\,\text{in} \\ &= \frac{3}{4}\,\text{in} \times \frac{1}{2}\,\text{in} \times \frac{1}{2}\,\text{in} \\ &= \frac{3}{16}\,\text{cubic in}\end{aligned}$$

10. The formula for the volume of a rectangular prism is shown below.

$$V = l \cdot w \cdot h$$

To find the volume of the rectangular prism, substitute the values given in the question into the formula.

$$\begin{aligned} V &= \left(\tfrac{1}{2}\ \text{cm}\right) \cdot \left(\tfrac{1}{4}\ \text{cm}\right) \cdot \left(\tfrac{4}{5}\ \text{cm}\right) \\ &= \tfrac{4}{40}\ \text{cu cm} \\ &= \tfrac{1}{10}\ \text{cu cm} \end{aligned}$$