



# Volume of Rectangular Prisms

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

Date: \_\_\_\_\_

Grade: Grade 5

## Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence:

If a prism has volume  $60 \text{ cm}^3$ , width 3 cm, and height 4 cm, the length is  $60 \times 3 \times 4 = 720 \text{ cm}$ .

Rewrite: \_\_\_\_\_

2. Fix the sentence: A box with volume  $36 \text{ in}^3$ , length 6 in, and width 3 in has height  $= 36 \div 6 = 6 \text{ in}$ .

Rewrite: \_\_\_\_\_

3. Fix the sentence: To find a missing width, add the volume, length, and height together.

Rewrite: \_\_\_\_\_

## Part B: Fill in the Blank

Write the missing word or number on each line.

1. A prism has volume  $80 \text{ cm}^3$ , length 8 cm, and height 2 cm. The width is \_\_\_\_\_ cm.
2. If  $V = l \times w \times h$ , then  $h = V \div l \div$  \_\_\_\_\_.
3. A box has volume  $120 \text{ in}^3$ , width 5 in, and height 4 in. The length is \_\_\_\_\_ in.
4. A rectangular prism has volume  $90 \text{ m}^3$  and base area  $15 \text{ m}^2$ . Its height is \_\_\_\_\_ m.

## Part C: Short Answer

Answer each question in one or two complete sentences.

1. A fish tank has volume 72 cubic inches, length 6 inches, and height 3 inches. What is the width?

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2. Explain how finding a missing dimension is the opposite of finding volume.

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## Answer Key · Volume of Rectangular Prisms · Grade: Grade 5

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### Part A: Fix the Sentence

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Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence:

If a prism has volume  $60 \text{ cm}^3$ , width  $3 \text{ cm}$ , and height  $4 \text{ cm}$ , the length is  $60 \times 3 \times 4 = 720 \text{ cm}$ .

Rewrite: **If a prism has volume  $60 \text{ cm}^3$ , width  $3 \text{ cm}$ , and height  $4 \text{ cm}$ , the length is  $60 \div 3 \div 4 = 5 \text{ cm}$ .**

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2. Fix the sentence: *A box with volume  $36 \text{ in}^3$ , length  $6 \text{ in}$ , and width  $3 \text{ in}$  has height  $= 36 \div 6 = 6 \text{ in}$ .*

Rewrite: **A box with volume  $36 \text{ in}^3$ , length  $6 \text{ in}$ , and width  $3 \text{ in}$  has height  $= 36 \div 6 \div 3 = 2 \text{ in}$ .**

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3. Fix the sentence: *To find a missing width, add the volume, length, and height together.*

Rewrite: **To find a missing width, divide the volume by both the length and the height.**

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### Part B: Fill in the Blank

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Write the missing word or number on each line.

- A prism has volume  $80 \text{ cm}^3$ , length  $8 \text{ cm}$ , and height  $2 \text{ cm}$ . The width is 5 cm.
- If  $V = l \times w \times h$ , then  $h = V \div l \div$  w.
- A box has volume  $120 \text{ in}^3$ , width  $5 \text{ in}$ , and height  $4 \text{ in}$ . The length is 6 in.
- A rectangular prism has volume  $90 \text{ m}^3$  and base area  $15 \text{ m}^2$ . Its height is 6 m.

### Part C: Short Answer

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Answer each question in one or two complete sentences.

1. A fish tank has volume 72 cubic inches, length 6 inches, and height 3 inches. What is the width?

*The width is  $72 \div 6 \div 3 = 4$  inches.*

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2. Explain how finding a missing dimension is the opposite of finding volume.

*Finding volume multiplies all three dimensions, so finding a missing dimension divides to undo that multiplication.*

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