



# 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: A fish tank 10 in long, 5 in wide, and 8 in tall holds 400 in<sup>2</sup> of water.

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

2. Fix the sentence:

A rectangular prism 7 cm × 3 cm × 2 cm has a volume of 42 cm<sup>3</sup> because 7 + 3 + 2 = 42.

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

3. Fix the sentence:

A shoebox that is 12 in × 6 in × 4 in has the same volume as a box that is 12 in × 3 in × 4 in.

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

## Part B: Fill in the Blank

Write the missing word or number on each line.

1. A cereal box that is 8 in × 3 in × 12 in has a volume of \_\_\_\_\_ in<sup>3</sup>.
2. Volume is always measured in \_\_\_\_\_ units because it fills three-dimensional space.
3. A rectangular prism has a volume of 120 cm<sup>3</sup>. If the length is 10 cm and the width is 4 cm, the height is \_\_\_\_\_ cm.
4. A gift box is 5 in × 5 in × 5 in. Its volume is \_\_\_\_\_ in<sup>3</sup>.

## Part C: Short Answer

Answer each question in one or two complete sentences.

1. A storage bin is 4 ft long, 2 ft wide, and 3 ft tall. Will 30 unit cubes that are each 1 ft<sup>3</sup> fit inside? Explain.

\_\_\_\_\_  
\_\_\_\_\_

2. Explain in your own words what happens to the volume of a rectangular prism when you double one \_\_\_\_\_

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

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### Part A: Fix the Sentence

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

2. Fix the sentence:

A rectangular prism 7 cm × 3 cm × 2 cm has a volume of 42 cm<sup>3</sup> because 7 + 3 + 2 = 42.

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

3. Fix the sentence:

A shoebox that is 12 in × 6 in × 4 in has the same volume as a box that is 12 in × 3 in × 4 in.

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

### Part B: Fill in the Blank

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Write the missing word or number on each line.

1. A cereal box that is 8 in × 3 in × 12 in has a volume of 288 in<sup>3</sup>.
2. Volume is always measured in cubic units because it fills three-dimensional space.
3. A rectangular prism has a volume of 120 cm<sup>3</sup>. If the length is 10 cm and the width is 4 cm, the height is 3 cm.
4. A gift box is 5 in × 5 in × 5 in. Its volume is 125 in<sup>3</sup>.

### Part C: Short Answer

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Answer each question in one or two complete sentences.

1. A storage bin is 4 ft long, 2 ft wide, and 3 ft tall. Will 30 unit cubes that are each 1 ft<sup>3</sup> fit inside? Explain.

\_\_\_\_\_

\_\_\_\_\_

2. Explain in your own words what happens to the volume of a rectangular prism when you double one of its dimensions.