Valentine's Day Chocolate Box Volumes

Grade 5 | Math | Nonfiction | Valentines day Theme | ~135 words | CCSS.MATH.5.MD.C.3

Name: _____ **Date:** _____

READ — READ THIS PASSAGE CAREFULLY. YOU MAY READ IT TWICE.

Valentine's Day chocolate boxes come in many different sizes and shapes. Chocolatiers must calculate the volume of each box to know how many chocolates fit inside. Volume is the amount of space inside a three-dimensional object, measured in cubic units. A small heart-shaped box might measure 4 inches long, 3 inches wide, and 2 inches tall. To find its volume, multiply length times width times height: 4 × 3 × 2 = 24 cubic inches. A larger rectangular box could be 8 inches long, 5 inches wide, and 3 inches tall, giving it a volume of 120 cubic inches. These calculations help candy makers determine pricing and ensure customers receive the perfect amount of chocolates. Understanding volume is essential for businesses that package Valentine's Day treats for millions of customers around the world each February.

Tip: Read the passage twice before turning to the questions on the next page.

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✏ **ANSWER** *USE THE PASSAGE ON PAGE 1 TO HELP FIND YOUR ANSWERS.*

MAIN IDEA

1. What is this passage mostly about?

TEXT EVIDENCE

2. According to the passage, what is the volume of the small heart-shaped chocolate box?

VOCABULARY

3. What does the word 'volume' mean in this passage?

INFERENCE

4. Why might a chocolatier need to understand volume?

CAUSE AND EFFECT

5. What happens when chocolatiers multiply the length, width, and height of a box?

TEXT EVIDENCE

6. What is the volume of the larger rectangular chocolate box described in the passage?

✓ ANSWER KEY — Valentine's Day Chocolate Box Volumes

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TEACHER / PARENT USE ONLY — Suggested answers shown below each question

Valentine's Day chocolate boxes come in many different sizes and shapes. Chocolatiers must calculate the volume of each box to know how many chocolates fit inside. Volume is the amount of space inside a three-dimensional object, measured in cubic units. A small heart-shaped box might measure 4 inches long, 3 inches wide, and 2 inches tall. To find its volume, multiply length times width times height: 4 × 3 × 2 = 24 cubic inches. A larger rectangular box could be 8 inches long, 5 inches wide, and 3 inches tall, giving it a volume of 120 cubic inches. These calculations help candy makers determine pricing and ensure customers receive the perfect amount of chocolates. Understanding volume is essential for businesses that package Valentine's Day treats for millions of customers around the world each February.

MAIN IDEA

1. What is this passage mostly about?

> The passage explains how volume calculations are used to determine the size of Valentine's Day chocolate boxes and how much chocolate they can hold.

TEXT EVIDENCE

2. According to the passage, what is the volume of the small heart-shaped chocolate box?

> The volume is 24 cubic inches, as stated in the passage: '4 × 3 × 2 = 24 cubic inches.'

VOCABULARY

3. What does the word 'volume' mean in this passage?

> Volume means the amount of space inside a three-dimensional object, measured in cubic units.

INFERENCE

4. Why might a chocolatier need to understand volume?

> A chocolatier needs to understand volume so they can determine correct box sizes, calculate pricing, and know how many chocolates fit in each box.

CAUSE AND EFFECT

5. What happens when chocolatiers multiply the length, width, and height of a box?

> When they multiply these three measurements together, they find the volume of the box in cubic units.

TEXT EVIDENCE

6. What is the volume of the larger rectangular chocolate box described in the passage?

> The volume is 120 cubic inches, calculated by multiplying 8 × 5 × 3 as shown in the text.