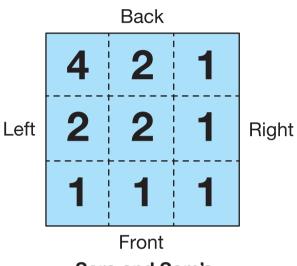
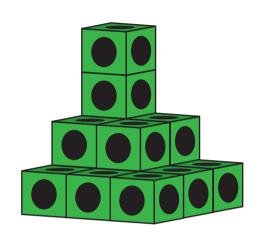
## "What If" Volume Problems

Both Sara and Sam used this building plan to build the same buildings.





Sara and Sam's Building Plan

1. What is the volume of this building?

\_\_\_\_\_ cubic units

2. What if Sam added one story to each column of his building? What will the new volume be? Write a number sentence to describe the new volume in cubic units.

\_\_\_\_\_ cubic units

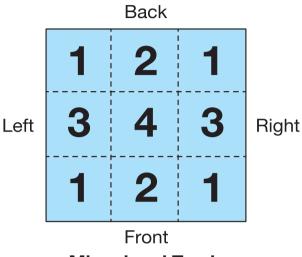
3. What if Sara made all the columns on her building the same height as the tallest column? Write a number sentence to describe this volume in cubic units.

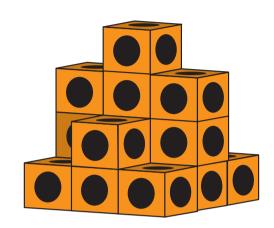
\_\_\_\_\_ cubic units

515

## Check-In: Questions 4–6

Miguel and Tara used this building plan to build the same buildings.





Miguel and Tara's Building Plan

4. What is the volume of this building?

\_\_\_\_\_ cubic units

5. What if Miguel added two stories to each column of his building? What would the new volume be? Write a number sentence to describe the new volume in cubic units.

\_\_\_\_\_ cubic units

6. What if Tara decided to make the center column of her building seven stories high instead of four stories high? What would the new volume be? Write a number sentence to describe this volume in cubic units.

\_\_\_\_\_ cubic units

Name	Date

"What If" Volume Problems Check-In: Questions 4–6 Feedback Box	Expectation	Check In	Comments
Solve problems involving volume. [Q# 5–6]	E2		
Apply the properties of addition to compose number sentences that represent the volume of a building. [Q# 5-6]	E3		
Make connections between a building of cubes, the building plan, and number sentences. [Q# 5-6]	E4		
Count and add cubic units to find volume. [Q# 4-6]	E8		