

Student Activity Book

Architects in Cubeland (SAB p. 519)

Building plans will vary.

What Is the Volume? (SAB pp. 525–526)

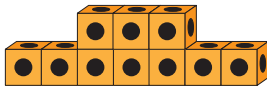
Questions 1–5

1. 10 cubic units
Possible number sentences:
 $7 + 3 = 10$; $2 + 6 + 2 = 10$
2. 10 cubic units
Possible number sentences:
 $5 + 5 = 10$; $2 + 2 + 2 + 2 + 2 = 10$
3. **A.** Answers will vary. Possible responses:
They both have the same volume and same number of cubes. Their tallest towers are 2 cubes high.
B. Answers will vary. Possible responses:
They are different shapes. The second building is longer. The second one has the same number of cubes on its top row as its bottom row.
4. **A.** 20 cubic units
Possible number sentences: $6 + 8 + 6 = 20$;
 $2 + 4 + 4 + 4 + 4 + 2 = 20$; $10 + 10 = 20$
B. Strategies will vary.
Possible response: I skip counted by 4s—4, 8, 12, 16. Then I added 2 and 2 on to get 20.
5. **A.** Missing column height is 4;
 $8 + 1 + 9 + \boxed{4} = 22$
B. Responses will vary.
Possible response: I added $8 + 1 = 9$. Then I added $9 + 9 = 18$. I counted up 4 to get to 22, so the missing column height is 4 units.

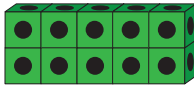
Name _____ Date _____

What Is the Volume

Find the volume of the buildings. Write a number sentence for each building.

1.  _____ cubic units

Number sentence _____

2.  _____ cubic units

Number sentence _____

3. **A.** What is the same about these 2 buildings?

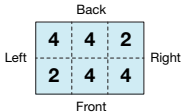
B. What is different?

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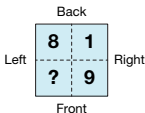
Student Activity Book - Page 525

Name _____ Date _____

4. **A.**  _____ cubic units

Number sentence _____

B. Show or tell how you added the numbers to find the volume.

5. **A.**  _____ 22 cubic units

Number sentence _____

B. Show or tell how you found the missing number.

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526 SAB • Grade 2 • Unit 10 • Lesson 3 Architects in Cubeland

Student Activity Book - Page 526

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