#### Student Activity Book

Building Plans (SAB pp. 509–510) **Questions 1–4** 

Ι.



2.

1	2	2	1
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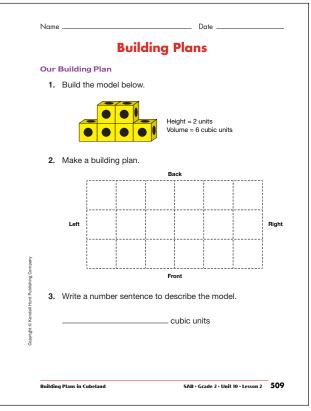
- **3.** Possible responses:
  - 1 + 2 + 2 + 1 = 66

$$1 + 4 + 1 =$$

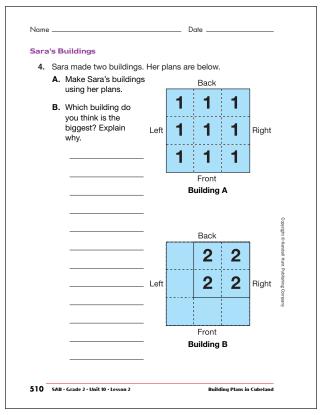
$$2 + 4 = 6$$

$$3 + 3 = 6$$

**4. A–B.\*** See discussion in the Lesson.



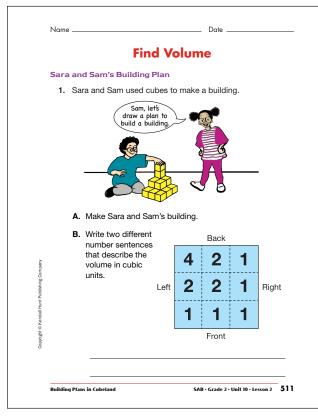
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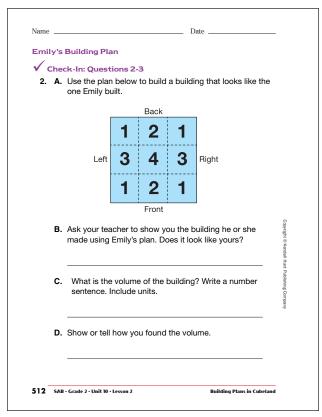
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\*Answers and/or discussion are included in the lesson.

I







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### Find Volume (SAB pp. 511–514) Questions 1–3

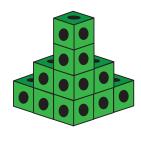
Number sentences will vary. Possible sentences are:

4 + 2 + 1 + 2 + 2 + 1 + 1 + 1 + 1 = 15 cubic units (counting by columns)

9 + 4 + 1 + 1 = 15 cubic units

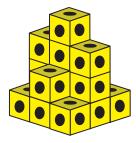
(9 is the volume of the first floor, 4 is the volume of the second floor, and 1 is the volume of the 3rd and 4th floors.)

I. A.



**B.** 7 + 5 + 3 = 15 (back to front) 7 + 5 + 3 = 15 (left to right)

2. A.



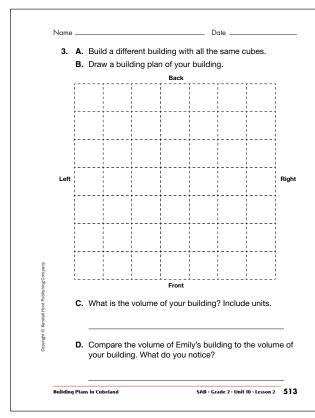
- **B.** Models should match.
- **C.** 18 cubic units; Number sentences will vary. Possible sentences:
  - 1 + 2 + 1 + 3 + 4 + 3 + 1 + 2 + 1 =18 cubic units (counting by columns)

5 + 8 + 5 = 18 cubic units (counting rows from left to right

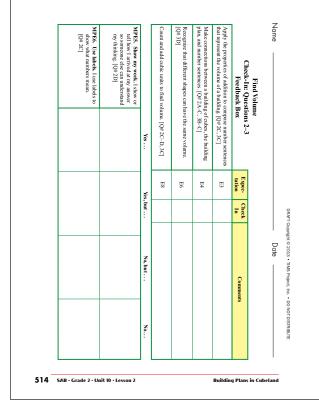
4 + 10 + 4 = 18 (counting rows from front to back)

**D.**\*I added the number of cubes.

# Answer Key • Lesson 2: Building Plans in Cubeland

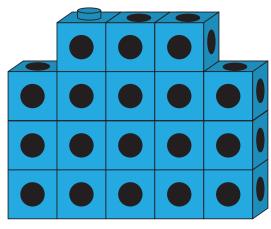


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**3. A.** Student's buildings will vary. possible building:



**B.** Students' building plans will vary. Possible building plan:



- **C.** 18 cubic units; 3+4+4+4=18 cubic units
- **D.** The volume of Emily's building is the same as the volume of my building because I used the same number of cubes to make a different shape.

# "What If" Volume Problems (SAB pp. 515–516) Questions 1–6

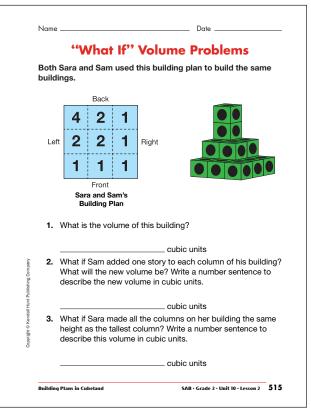
- I. 15 cubic units
- 2. 24 cubic units; number sentences will vary. Possible sentences are: 15 + 9 = 24 and 5 + 3 + 2 + 3 + 3 + 2 + 2 + 2 + 2 = 24 cubic units
- **3.** 36 cubic units; Number sentences will vary. One possible sentence is:

4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 36 cubic units

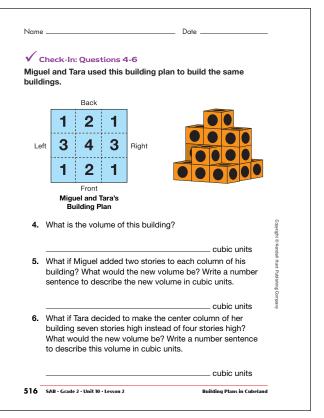
- **4.** 18 cubic units
- 5. Number sentences will vary. Possible sentences: 18 + 9 + 9 =36 cubic units and 3 + 4 + 3 + 5 + 6 + 5 + 3 +4 + 3 = 36 cubic units
- **6.** Number sentences will vary. Possible sentences are:

1 + 2 + 1 + 3 + 7 + 3 + 1 + 2 + 1 = 21 cubic units

18 + 3 = 21 cubic units



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