	TIMS Towers	
Tal	l Tower	
Buil drav	d a cube model of the Tall Tower. Use your moving to answer the questions. Include units.	del and
1.	A. How many floors are in the Tall Tower?	
	B. How many cubes are on each floor?	
	C. What is the volume of the Tall Tower?	
2.	Show or tell how you grouped the cubes to find	
	the volume.	
3.	Write a number sentence to show how you found the volume.	Tall Tov

Student Activity Book - Page 435

	4. A. How many floors are i Sky-High Tower?	in the
	B. How many cubes are each floor?	on
	C. What is the volume of Sky-High Tower?	the
	Sky-High Tower	
5.	Show or tell how you grouped the cubes to find the volu	ıme.

Student Activity Book - Page 436

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

TIMS Towers (SAB pp. 435–438) Questions 1–11

- **I. A.** 11 floors
 - **B.** 2 cubes
 - **C.***22 cubic units
- 2.* Possible responses: I grouped by floors. There are 2 cubes on each floor so I skip counted by 2s (2, 4, 6, 8 10, 12, 14, 16, 18, 20, 22). I grouped the cubes by columns. There are 2 columns with 11 in each column. I doubled 11 to get 22 cubic units.
- - 10 + 10 + 2 = 22; 10 + 10 + 1 + 1 = 22
- **4. A.** 9 floors
 - **B.** 6 cubes
 - **C.***54 cubic units
- **5.*** Possible responses: Since there are 6 cubes on each floor, I divided each floor into 5 + 1. First I skip counted by 5s for the 9 floors (5, 10,15, 20, 25, 30, 35, 40, 45) and then I counted on for the left over cubes (46, 47, 48, 49, 50, 51, 52, 53, 54). I saw that there were 9 in each column and there are 6 columns. Since 9 is 1 less than 10 I thought about how many six 10s will be. It is 60. Then I counted back 6 to take away the extra cubes (59, 58, 57, 56, 55, 54).
- **6.*** Possible response:
 - 5+5+5+5+5+5+5+5+5+9=54

TG • Grade 1 • Unit 13 • Lesson 3 • Answer Key

- **7. A.*** 6 floors
 - **B.*** 6 cubes
 - C.* 36 cubic units
- **8.*** Possible responses: I grouped the cubes by floors. There are 6 cubes on each floor and there are 6 floors. I used my calculator to add 6+6+6+6+6+6=36. I counted 18 cubes on the front side of the building. I knew there were also 18 cubes on the back of the building, so I used my calculator to add 18 + 18 = 36.
- **9.*** Possible responses: 6 + 6 + 6 = 18; 18 + 18 = 36
- **10. A.** 10 cubes
 - B. 5 floors
 - **C.** 50 cubic units
- Possible response: John grouped the cubes by floor. There are 10 cubes on each floor and there are 5 floors, so he counted by 10s (10, 20, 30, 40, 50) to get 50 cubic units.

M	
More Towers	h huilding. Hee yeur medel te energy
the questions. Include un	its.
	7. A. How many floors are in the
	Triple Double Tower?
	B. How many cubes are on
	each floor?
Iriple Double Tower	
	C. What is the volume of the Triple Double Tower?
8. Show or tell how you	grouped the cubes fo find the volume.
9. Write a number sente volume.	ence to show how you found the

Student Activity Book - Page 437

	10. A. How many cubes are on	
	each floor of the Sawtoot Tower?	h
Sawtooth Tower	B. How many floors are in the Sawtooth Tower?	 1e
	C. What is the volume of the Sawtooth Tower?	
 John thinks the volume He said he skip counted 	of Sawtooth Tower is 50 cubic units by tens. Show or tell John's strate	Copyright ⊚ Kendall Hunt Publishing Con
11. John thinks the volume He said he skip counted	of Sawtooth Tower is 50 cubic units by tens. Show or tell John's strate	⊂ Coppright © Kendall Hunt Publishing Company

Student Activity Book - Page 438

	TIMS Radio Tower
Buil and	a cube model of the TIMS Radio Tower. Use your mode the drawing to answer the questions. Include units.
	TIMS Radio Tower
1.	How many floors are in the TIMS Radio Tower?
2.	What is the volume?
3.	Show or tell how you found the volume.

Student Activity Book - Page 439



Student Activity Book - Page 440

TIMS Radio Tower (SAB p. 439) Questions 1–4

- I. 7 floors
- **2.** 48 cubic units
- **3.** Three possible responses: I grouped the cubes on the bottom of the building by columns. There are 8 columns with 5 cubes in each, so I counted by 5s (5, 10, 15, 20, 25, 30, 35, 40). There are 8 cubes on the top of the tower so I added 40 + 8 = 48 cubic units. I counted the cubes on the front side of the building and got 24 cubes. I knew there were also 24 cubes on the back of the building so I used my calculator to add 24 + 24 = 48 cubic units. I counted the cubes on the two short columns at the ends of the building. Each side had 10 cubes, so first I added 10 + 10 = 20. Then I counted the cubes in the middle two columns. Each one had 14 cubes. I added 14 + 14 = 28. Then I used the calculator to add 20 + 28 = 48 cubic units.
- **4.** Possible response: 20 + 20 + 4 + 4 = 48