

### Student Activity Book - Page 435

•	•	•	•		4.	A.	How many floors are in the Sky-High Tower?
•	•	•	• •			В.	How many cubes are on each floor?
•	•	•	• •			c.	What is the volume of the Sky-High Tower?
•	Sko	• • /-Hi	o o	ver			
5.			•		roupe	d th	e cubes to find the volume.

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# **Student Activity Book**

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

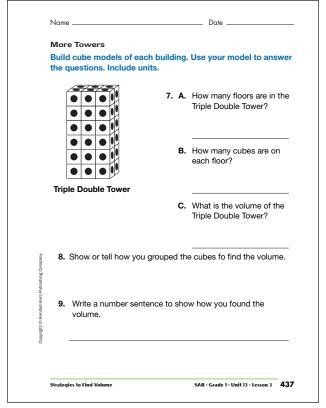
- **I. A.** 11 floors
  - **B.** 2 cubes
  - C.\*22 cubic units
- 2.\* Possible responses: I grouped by floors. There are 2 cubes on each floor so I skip counted by 2s (2, 4, 6, 8 10, 12, 14, 16, 18, 20, 22). I grouped the cubes by columns. There are 2 columns with 11 in each column. I doubled 11 to get 22 cubic units.
- **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:

$$5+5+5+5+5+5+5+5+5+9=54$$

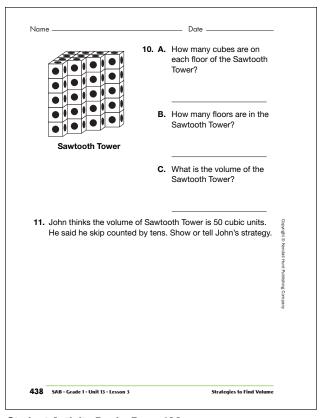
<sup>\*</sup>Answers and/or discussion are included in the lesson.

# Answer Key • Lesson 3: Strategies to Find Volume

- **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+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
- 11. 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.

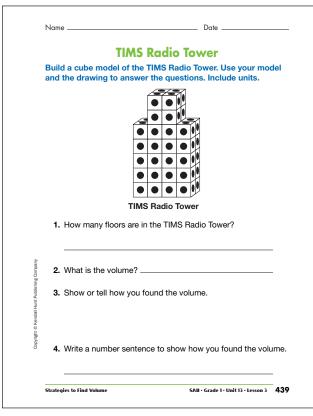


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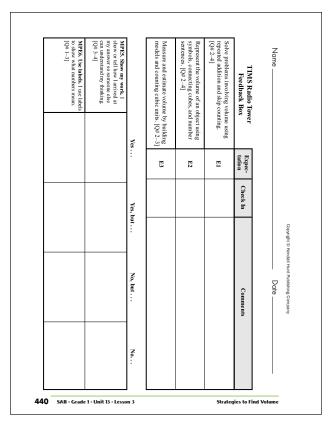


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<sup>\*</sup>Answers and/or discussion are included in the lesson.



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

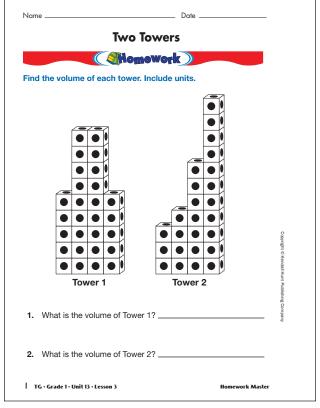
- I. 7 floors
- 2. 48 cubic units
- **3.** Three possible responses: I grouped the cubes on the bottom of the building by columns. There are 8 columns with 5 cubes in each, so I counted by 5s (5, 10, 15, 20, 25, 30, 35, 40). There are 8 cubes on the top of the tower so I added 40 + 8 = 48 cubic units. 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

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# **Teacher Guide**

# Two Towers (TG pp. 1–2) Homework Questions 1–6

- I. 28 cubic units
- 2. 25 cubic units
- **3.** Tower 2
- **4.** Tower 1
- **5.** Possible response: I divided the tower into two parts. The bottom of the tower has 5 floors with 4 cubes in each floor. The top of the tower has 4 floors with 2 cubes in each floor. I counted by 5s to find the volume of the bottom part (5, 10, 15, 20) and then I counted by 2s to find the volume of the top (2, 4, 6, 8). Then I added 20 + 8 = 28 cubic units to find the total.
- **6.** Possible response: 5 + 5 + 5 + 5 + 4 + 4 = 28



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Nan	ne [	Date
3.	Which tower is taller?	
4.	Which tower has the greater volume? _	
5.	Show or tell how you found the volume	of Tower 1.
	Write a number sentence to show how of Tower 1.	you found the volume
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