

Student Activity Book

Planning Your Strategies* (SAB p. 497)

Strategies will vary. Estimation is appropriate for Questions 3, 5, 10, 11, 21, 22, 26, and 27. Questions 10, 18, 19, 21, 25, and 26 lend themselves to being solved with mental math.

Dancing in TIMSville* (SB p. 498–502)

Dance floors will vary. A possible design that meets all the criteria is one rectangle 10×10 on the left of the stage and another rectangle 30×25 across the top of the stage.

$10 \times 10 = 100$

$30 \times 25 = 750$

$100 + 750 = 850$ sq. ft.

Name _____ Date _____

Planning Your Strategies

For Questions 1–27 in the *Choosing Strategies to Multiply* pages in the *Student Guide*, decide which strategy from the list below you think is best for each problem. Write your strategies in the table below. Use each strategy in the list at least two times.

Strategy List

Mental Math	Paper-and-Pencil Methods
1. Using Simpler Numbers	5. Using Rectangles
2. Halving and Doubling	6. All Partial
Estimation	7. Expanded Form
3. Using Convenient Numbers	8. Compact
4. Finding a Range	9. Combination

Question	Strategy	Question	Strategy	Question	Strategy
1		10		19	
2		11		20	
3		12		21	
4		13		22	
5		14		23	
6		15		24	
7		16		25	
8		17		26	
9		18		27	

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Student Activity Book - Page 497

Name _____ Date _____

TIMSville Dance Floor Final Design

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500 SAB • Grade 4 • Unit 11 • Lesson 5 Choosing Strategies to Multiply

Student Activity Book - Page 500

Name _____ Date _____

How We Designed the Dance Floor

In the space below, write a letter to the mayor that explains how your team designed the dance floor. Think about these questions as you write.

- What strategies did you try?
- Which strategies did not work well? Why not?
- Which strategies worked best? Why?
- How did your design change as you solved the problem?
- How did you check if your design followed the mayor's rules?

Dear Mayor of TIMSville:

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Student Activity Book - Page 501

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

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