

## Lesson 4-5 Writing a Function Rule

**Problem 2** Writing and Evaluating a Function Rule

**Concert Revenue** A concert seating plan is shown below. Reserved seating is sold out. Total revenue from ticket sales will depend on the number of general-seating tickets sold. Write a function rule to represent this situation. What is the maximum possible total revenue?

Reserved Seating: \$25.00  
10 rows, 12 seats per row

General Seating: \$10.00  
30 rows, 16 seats per row

**Got It?** 2. a. A kennel charges \$15 per day to board dogs. Upon arrival, each dog must have a flea bath that costs \$12. Write a function rule for the total cost for  $n$  days of boarding plus a bath. How much does a 10-day stay cost?

b. **Reasoning** Does a 5-day stay cost half as much as a 10-day stay? Explain.



**Problem 3** Writing a Nonlinear Function Rule

**Geometry** Write a function rule for the area of a rectangle whose length is 5 ft more than its width. What is the area of the rectangle when its width is 9 ft?

Book work p 265: 9-21 odd, 25, 29