

## Arithmetic and geometric sequences and series

### Student Activity Sheet 2; *Exploring* "Arithmetic sequences and series"

9. Suppose that the remodeled auditorium will have 12 rows. What is the total seating capacity of the auditorium?
10. Consider a different seating arrangement for the auditorium. In this design, the first row will have 15 seats, and each row will have 5 more seats than the row in front of it. Find a recursive definition for this sequence. Then find the total number of seats if there are 18 rows of seats in the auditorium.