

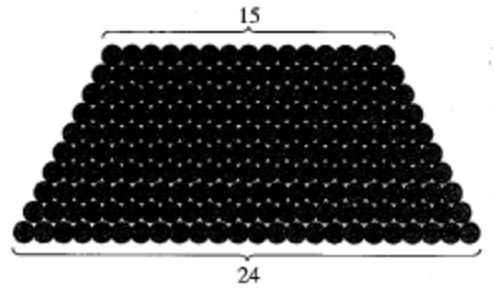
F & T
Arithmetic Series HW

Name _____

1.) Find the **sum** of the first 40 terms of the sequence: 50 , 42 , 34 , 26 ,

2.) Find the **sum** of the first 68 terms of the sequence: 2 , 9 , 16 , 23 ,

- 3.) Logs are stacked in a pile, as shown in the figure. This stack of logs has 10 rows. The top row has 15 logs and the bottom row has 24 logs. How many total logs are in the stack?



- 4.) Each row in an auditorium has two more seats than the preceding row. Find the seating capacity of the auditorium if the front row seats 25 people and there are 15 rows of seats?

- 5.) Write the sigma notation formula that would represent the following arithmetic series:

$$1 + 5 + 9 + 13 + \dots$$