

Name _____

1-8A Lesson Master

Questions on SPUR Objectives
See Student Edition pages 66–69 for objectives.

SKILLS Objective E

1. Let E be the sequence of even numbers: 2, 4, 6, 8, 10, 12, ...

- a. Find the value of E_6 . _____ b. Which term is equal to 6? _____

In 2 and 3, find a. the first four terms of the sequence and
b. the 98th term of the sequence.

2. $I_n = \frac{12}{n}$ a. _____ b. _____

3. $h_n = 428 - 4.9n^2$ a. _____ b. _____

4. Consider the sequence $t_n = n^2 + 20$.

- a. $t^8 =$ _____ b. Which term is equal to 189? _____

REPRESENTATIONS Objective L

5. Consider the sequence $t_n = 12.8 + \sqrt{8.5n}$.

- a. Use a graphing utility to generate terms 50 through 55.
Complete the table at the right.
- b. Which term of the sequence has a value closest to 32?

n	t_n
50	
51	
52	
53	
54	
55	

6. Ashley put \$750 in a bank account that pays 4.2% interest at the end of each year. During the n th year (before the interest is paid), the account balance is given by $A_n = 750(1.042)^{n-1}$.

- a. Complete the table at the right to show the account balance for the first five years.
- b. In which year will the balance in the account first pass \$1000?

Year	Balance
1	
2	
3	
4	
5	