Function Rules and Equations Homework Practice

Use words and symbols to describe the value of each term as a function of its position. Then find the value of the sixteenth term in the sequence.

1.

Position	2	3	4	5	n
Value of Term	8	12	16	20	▪

2.

Position	8	9	10	11	n
Value of Term	14	15	16	17	▪

3.

Position	11	12	13	14	n
Value of Term	4	5	6	7	▪

4.

Position	21	22	23	24	n
Value of Term	12	13	14	15	▪

5. **MEASUREMENT** There are 52 weeks in 1 year. In the space at the right, make a table and write a function rule relating the number of weeks to the number of years for 1, 2, 3, and n years. Then find Hana's age in weeks if she is 11 years old.

Write an equation to represent each function.

6.

Input, x	1	2	3	4	5
Output, y	7	14	21	28	35

7.

Input, x	0	1	2	3	4
Output, y	0	9	18	27	36

8.

Input, x	1	2	3	4	5
Output, y	13	26	39	52	65

9.

Input, x	10	20	30	40	50
Output, y	1	2	3	4	5

10.

Input, x	0	1	2	3	4
Output, y	1	6	11	16	21

11.

Input, x	4	8	12	16	20
Output, y	21	37	53	69	85

12. FISHING A lake owner charges $80 for a day's guided fishing trip, plus $5 for each pound of fish caught. Write the equation that describes the total charge c for the number of pounds p of fish. Make a function table for the input-output values.

p	$80 + 5p$	e
0		
1		
2		
3		