

LESSON

3

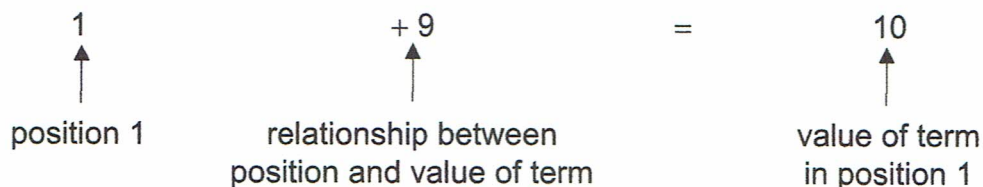
Introduction to Algebra

Reading Strategies: Identify Relationships

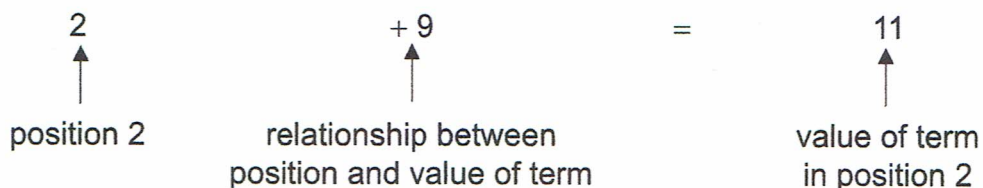
When you are **related** to someone, you are connected by something in common. When you look at the positions and the values of terms in a table, they are related, too. You can find the connection, or **relationship**. Then you can write an expression for the sequence.

Position	1	2	3	4	5	n
Value of Term	10	11	12	13	14	?

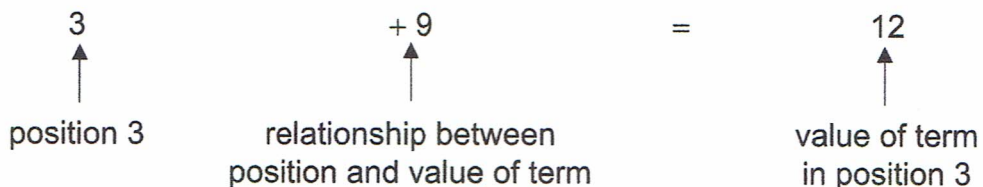
Read the value of the term in the first position. Note how it is related to its position.



Check to see if the relationship works for the second position.



Check again. Use the value of the term in the third position.



So, the expression for the sequence is $n + 9$.

Use this table to answer Exercises 1–6.

Position	1	2	3	4	5	n
Value of Term	5	10	15	20	25	?

- How do you go from position 1 to the value of its term, 5? _____
- Try the relationship for the next term. Can you add 4 to 2 and get 10? _____
Does $n + 4$ work? _____
- Try another relationship for position 1 and its term.
How else can you go from 1 to 5? _____
- Try this relationship for the next term. Can you multiply 2 by 5 and get 10? _____
- Check again by using the value of the term in the third position.
Can you multiply 3 by 5 and get 15? _____
- What is the expression for the sequence in the table? _____