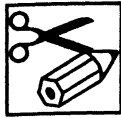


What Comes Next?

Leader



Develop a procedure that the student can apply to identify a pattern and determine the missing terms in a sequence.



You will need:

- Pencil



Do this:

- Discussion should focus on the three steps outlined on the Student Page.
- These steps should be emphasized since they constitute the framework for generating a given term in a sequence.



Dolan, Daniel T., and James Williamson. *Teaching Problem-Solving Strategies*. Addison-Wesley Publishing Company, Inc. 1983:228–229.

Student _____



Do this:

First: Number the terms in the space above the sequence.



Term Number	1	2	3	4	
Term	15	21	27	33	

$21 - 15 = 6$

Second: Find the difference between the 1st and 2nd terms, 2nd and 3rd terms, and so forth.



What is the difference between successive terms? _____

Term Number	1	2	3	4	5	6	7
Term	15	21	27	33			

6 6 6 $+$ _____ $+$ _____ $+$ _____

Third: if the difference each time is the SAME, add that difference to the last given term to get the next one.



What do you add to each term to get the next term? _____

Use the three steps and find WHAT COMES NEXT.



Term Number		2		4			
Term		2	6	10	14		

$+$ _____ $+$ _____ $+$ _____ $+$ _____

Term Number	1			4			
Term	74	67	60	53			

$+$ _____ $+$ _____ $+$ _____ $+$ _____



WHAT I FOUND