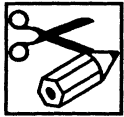


Solve with Patterns

Leader



Use a table as an organizer when applying the patterns strategy.



You will need:

- A Pencil



Do this:

- Be sure to emphasize the difference between the two patterns in problem 2.
- The sequence for “the number of passengers that get on the bus” is linear. However, the sequence for “the total number of passengers” is not linear.



Dolan, Daniel T. and James Williamson. *Teaching Problem-Solving Strategies*. Addison-Wesley Publishing Company, Inc. 1983:235.

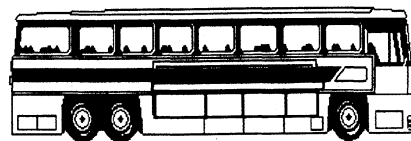
Student _____



Do this:

Use your knowledge of patterns to solve the following:

- An empty bus is picking up passengers at the following rate. One passenger at the first stop, three at the second stop, five at the third stop, seven at the fourth, and so on.



How many passengers got on the bus at the fifteenth stop? Do you see a pattern in the problem? Set up a table to help solve it.

Stops	1	2	3	4	5
Number of passengers that get on the bus	1	3			

- Now that you know how many passengers got on at each stop, what was the total number of passengers on the bus after ten stops? After fifteen stops?

Stops	1	2	3	4	5
Number of passengers that get on the bus	1	3			
Total passengers on the bus	1	4			



WHAT I FOUND