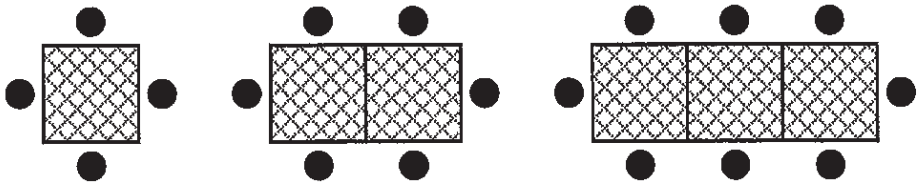
How Does a Backward Poet Write?

For each situation, complete the table and graph. For table cells with letters, write the letter in the corresponding box at right.

23	18	15	6	31	12	7

Situation #1. Arranging Tables.



$n = 1$ $n = 2$ $n = 3$ $n = 4$

A square table has one seat on each side. Square tables are pushed together to make banquet tables. Draw banquet table #4 in the pattern above. Then complete the table and graph to show how the number of seats varies with the number of tables that are pushed together.

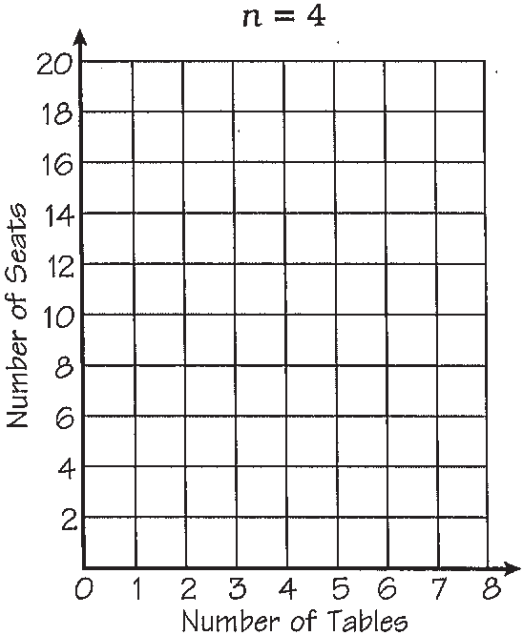
Let n = Number of tables

S = Number of seats

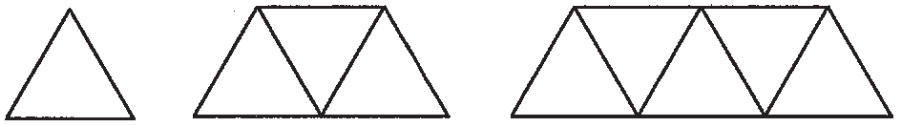
Equation:

$S =$

n	S
1	
2	E
3	
4	
5	S
6	
7	
8	N



Situation #2. Building Bridges.



$n = 1$ $n = 2$ $n = 3$ $n = 4$

These bridges are constructed using rods to make equilateral triangles. The length of a bridge is the number of rods used to construct the bottom span. Draw bridge #4 in the pattern above. Then complete the table and graph to show how the number of rods used varies with the length of the bridge.

Let n = Length of bridge

R = Number of rods

Equation:

$R =$

n	R
1	
2	E
3	
4	V
5	
6	I
7	
8	R