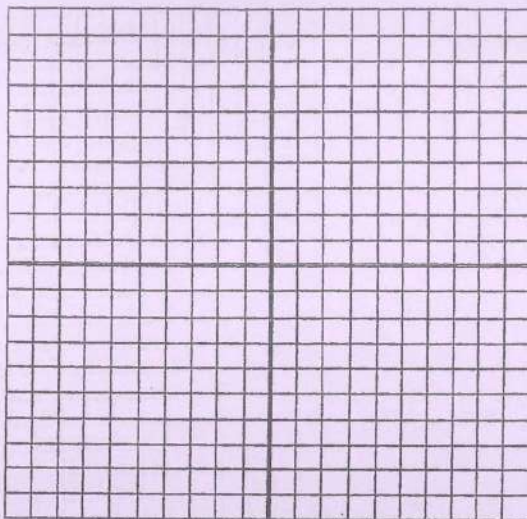


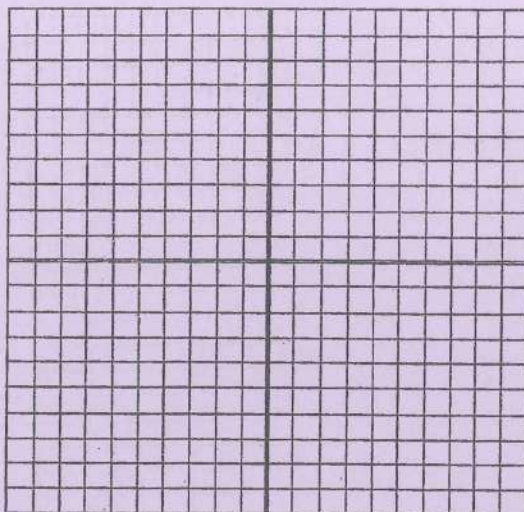
$$y = 3x$$

IN (x)	OUT (y)
-6	
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	
6	



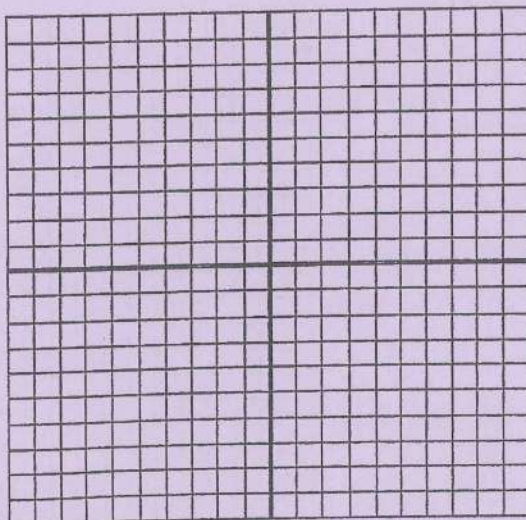
$$y = x - 4$$

IN (x)	OUT (y)
-6	
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	
6	



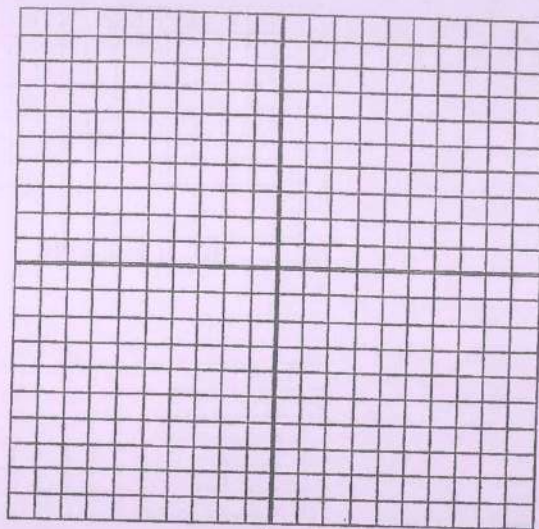
$$3. \quad y = -2x$$

IN (x)	OUT (y)
-6	
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	
6	



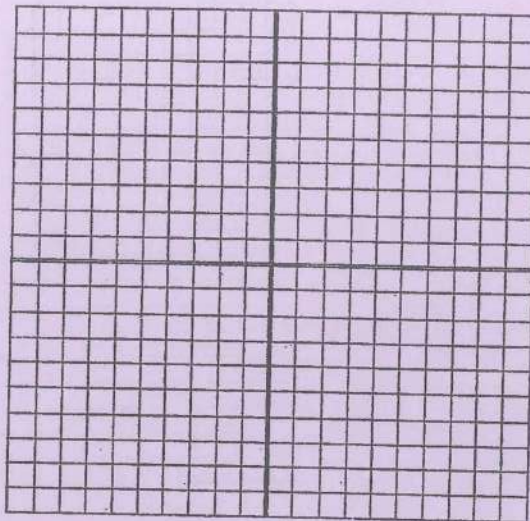
4. $y = x$

IN (x)	OUT (y)
-6	
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	
6	



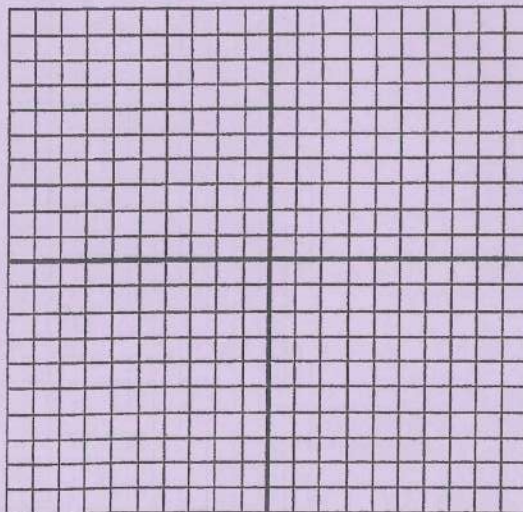
5. $y = -x$

IN (x)	OUT (y)
-6	
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	
6	



6. $y = x^2$

IN (x)	OUT (y)
-6	
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	
6	

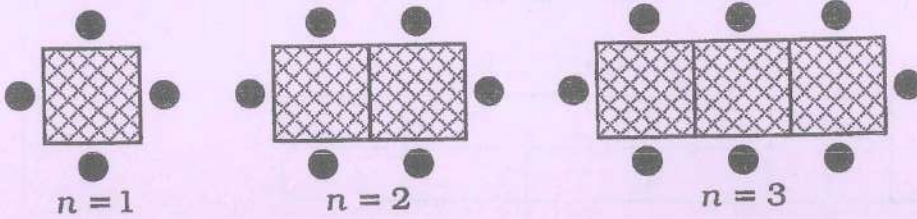


How Does a Backward Poet Write?

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
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Situation #1. Arranging Tables.



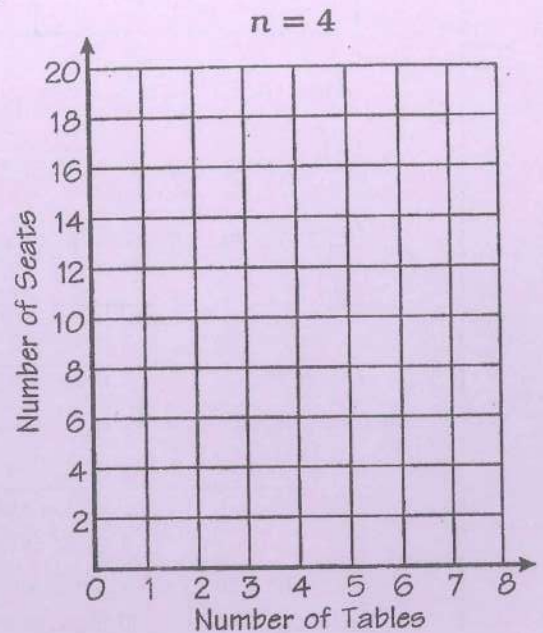
A square table has one seat on each side. Square tables are pushed together to make banquet tables. Draw banquet table #4 in the pattern above. Then complete the table and graph to show how the number of seats varies with the number of tables that are pushed together.

Let n = Number of tables
 S = Number of seats

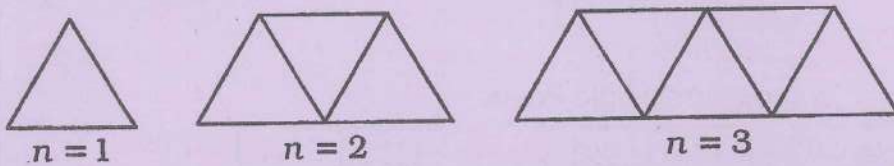
Equation:

$S =$

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



Situation #2. Building Bridges.



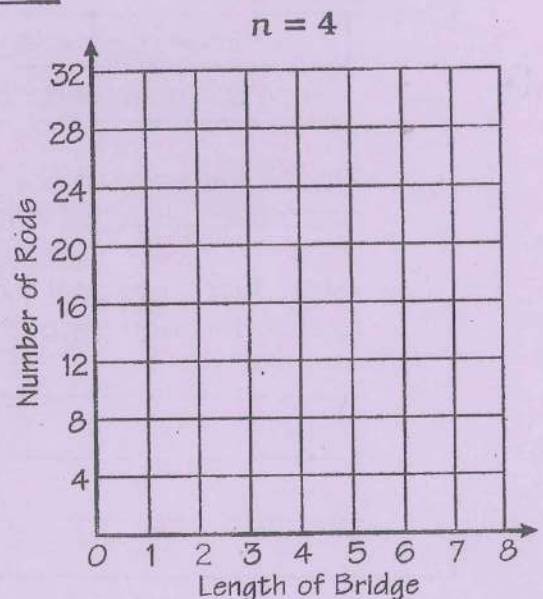
These bridges are constructed using rods to make equilateral triangles. The length of a bridge is the number of rods used to construct the bottom span. Draw bridge #4 in the pattern above. Then complete the table and graph to show how the number of rods used varies with the length of the bridge.

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



Name: _____

In and Out Boxes

In and Out Boxes - Word Problems

- a. Adam is exactly 4 years older than Jen. Complete the table to show their ages.

Adam and Jen's Ages (Years)

Adam	5	7		15	
Jen			5		20

When Adam was 7 years old, how old was Jen? _____

When Jen was 5, how old was Adam? _____

Adam says when he turns 36, Jen will be 31. Is he correct? Explain.

- b. Bicycle Land is having a sale. There is a red tag on each bicycle to show its sale price. If customers want the bike assembled, they need to add \$9 to the sale price. Complete the table to show the price of the assembled and unassembled bikes.

Bicycle Land Sale Prices

Price of Bicycle	\$56	\$62		\$102	
Price of Assembled Bicycle			\$87		\$142

What is the price of an assembled bike that is marked \$62? _____

A bike has a tag on it that reads \$99. What would be the price if you wanted to include assembly of the bike? Explain how you found your answer.
