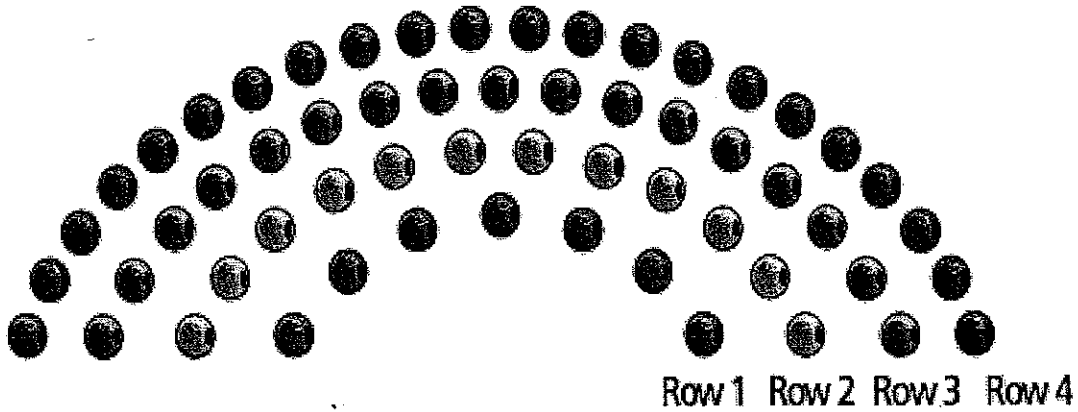


**Chapter 6.1 Practice – Pattern Problems**

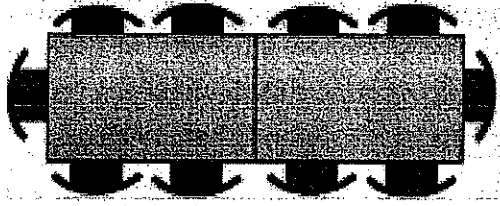
Name : \_\_\_\_\_

- 1) a) A bead design for a necklace has an arc shape as shown. Draw the next row of beads.



- b) Make a table of values showing the number of beads in relation to the row number.
- c) Write the equation that shows the relation between the # of rows and the # of beads.
- d) Use your equation to calculate how many beads are in row 38.
- e) Use your equation to calculate which row # would have 92 beads.

- 2) In a banquet hall, a single rectangular table seats 6 people. Tables can be connected end to end as shown.



- a) Make a table of values that compares the number of tables and the number of seats available.
- b) Write the equation that shows the relation between the number of tables and the number of seats.
- c) Use your equation to calculate how many people you could seat if you connected 18 tables together.
- d) Use your equation to calculate how many tables you need to seat 46 people.
- e) Graph the table of values below.