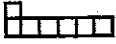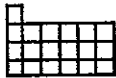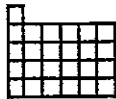## Verbal Description

Each step in the pattern below is made up of congruent small squares.

Step 1

Step 2

Step 3

Step 4

*Question taken from the 2006 MCAS Grade 7 test
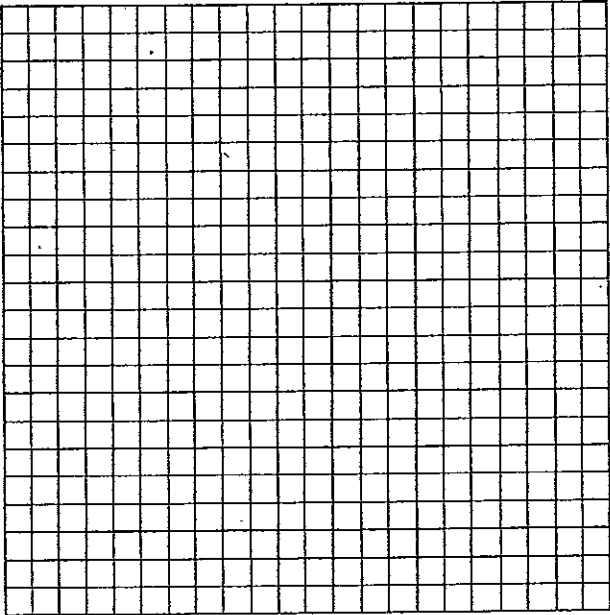
Table

Step #	Number of squares

Graph

Use a line graph. Make your own intervals.

Communication

a) Sketch Steps 5 and 6 below and describe the pattern:

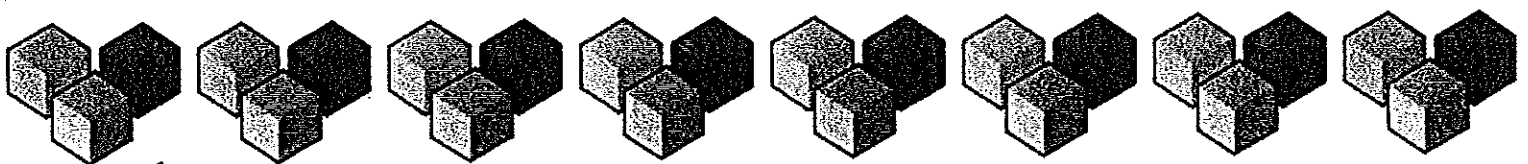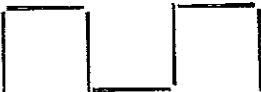b) Write a rule for this pattern so if you wanted to find Step 50 you could.
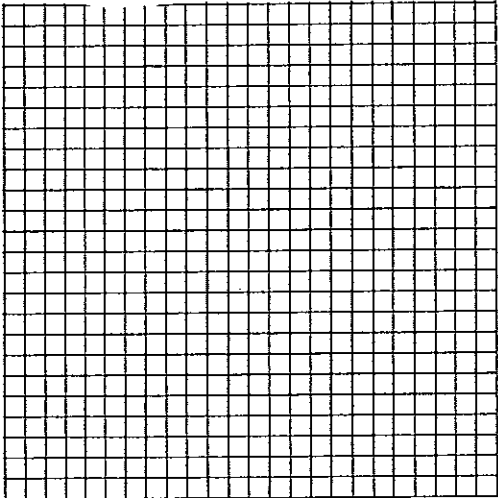
Diagram	Table

Diagram

Below are different steps in a pattern. Count the toothpicks in each step and write the number of toothpicks next to each drawing.

STEP 1

STEP 2

STEP 3

Table

Make a table showing the steps and how many toothpicks are in each step. Be sure to do the 5oth step.

Graph	Communication

Graph

Make a graph using the data from either the toothpick picture or the table you constructed.

Communication

1) How many toothpicks would be in step 10?

2) How is the pattern changing or growing?