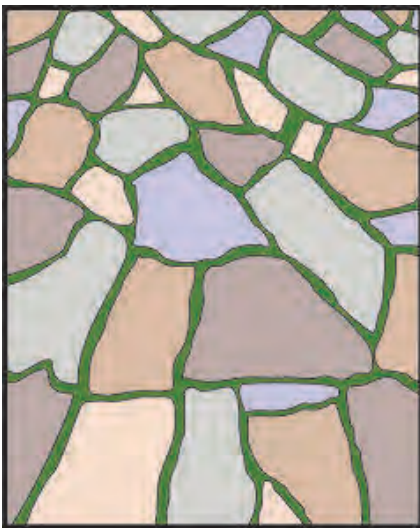# Unit 14
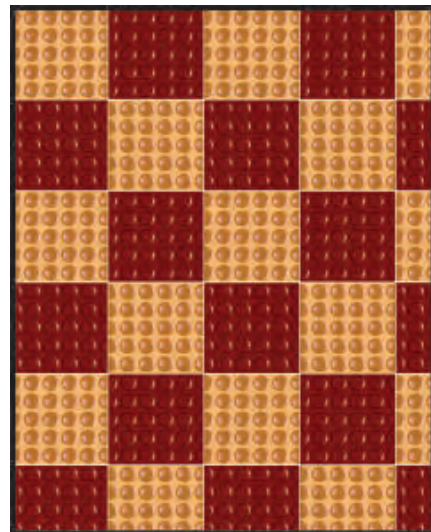
PATTERNS & RIDDLES

You must have seen tiles fixed on houses, footpaths, railway station, garden etc. In this unit we will see the different arrangments of tiles.
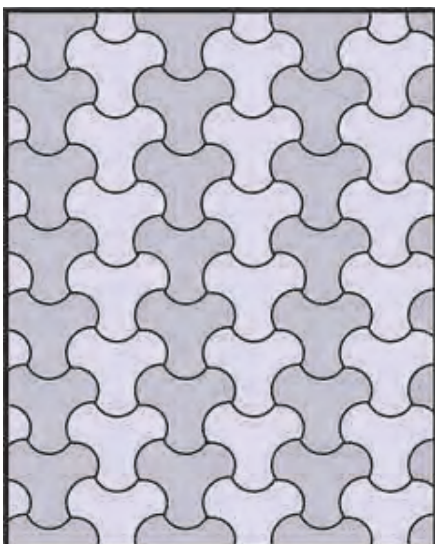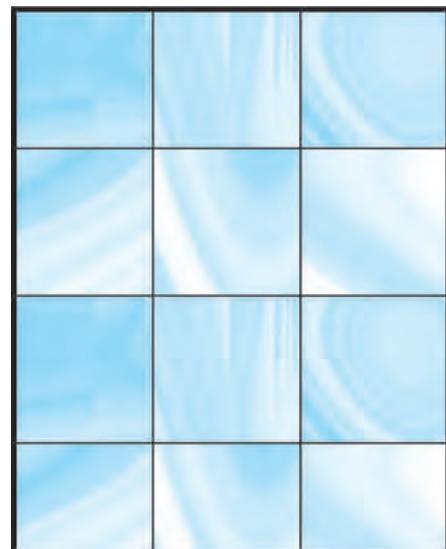
Tiles of different shapes-

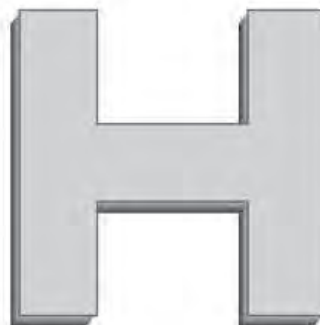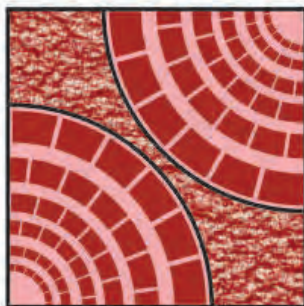Tiles on the garden

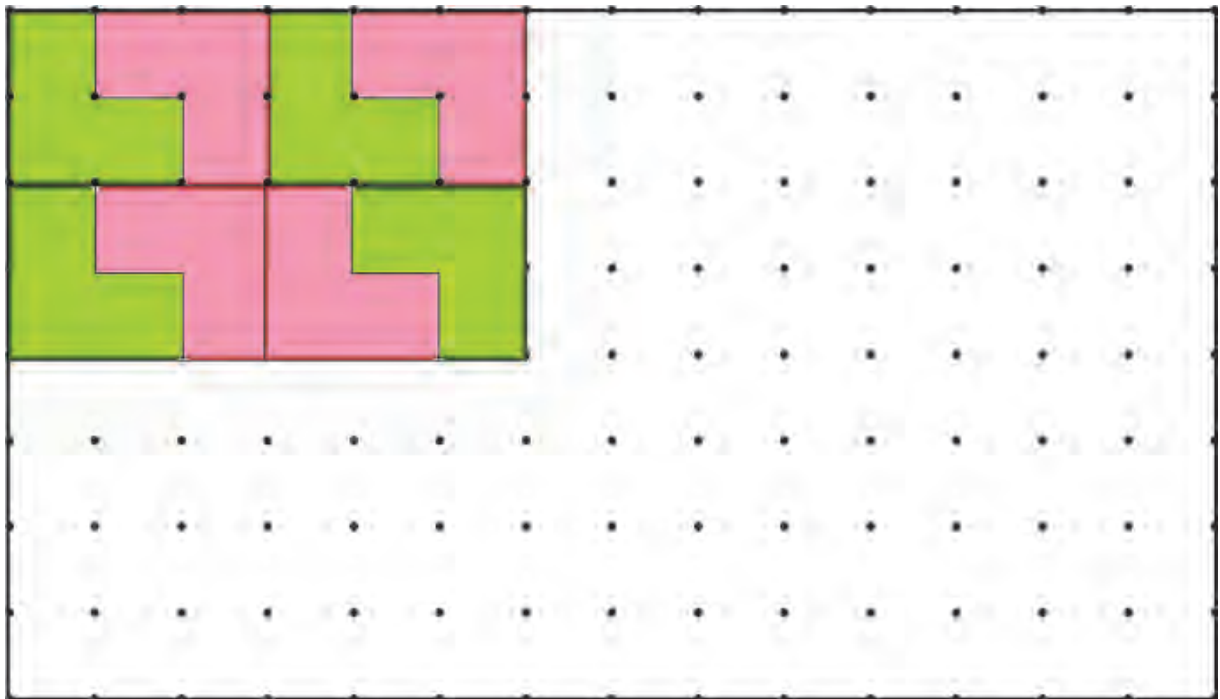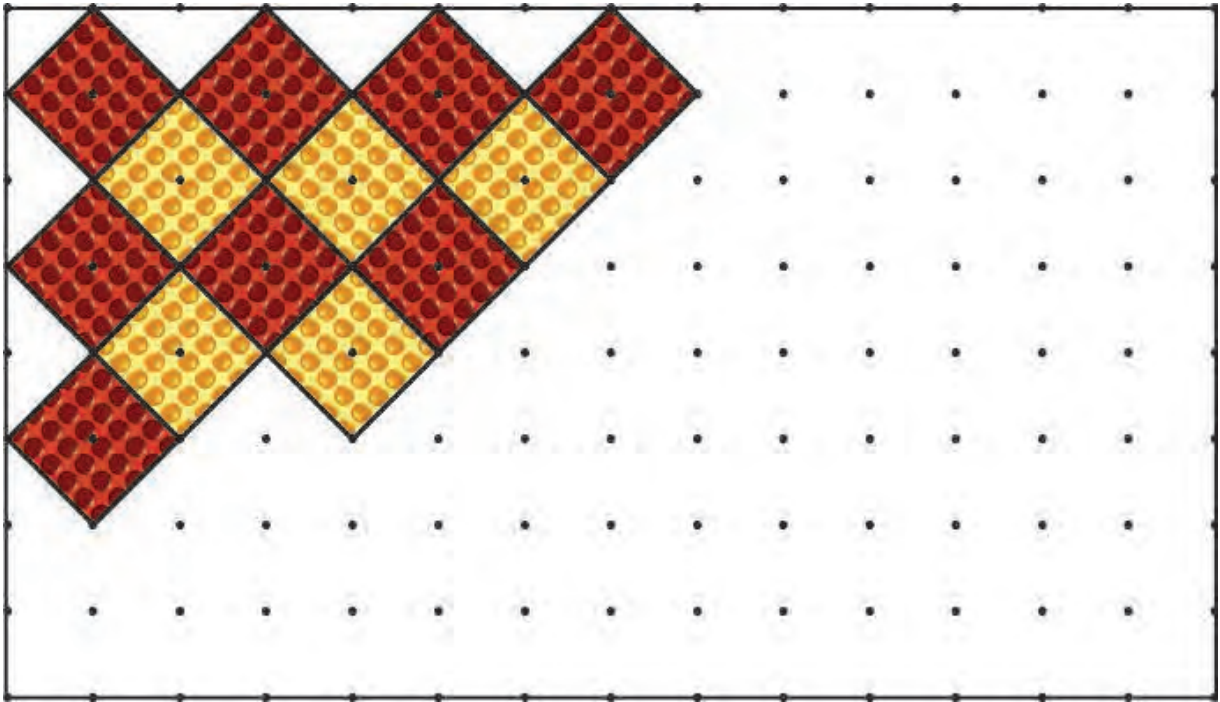Tiles on the railway station

Tiles on the footpath

Tiles on the houses
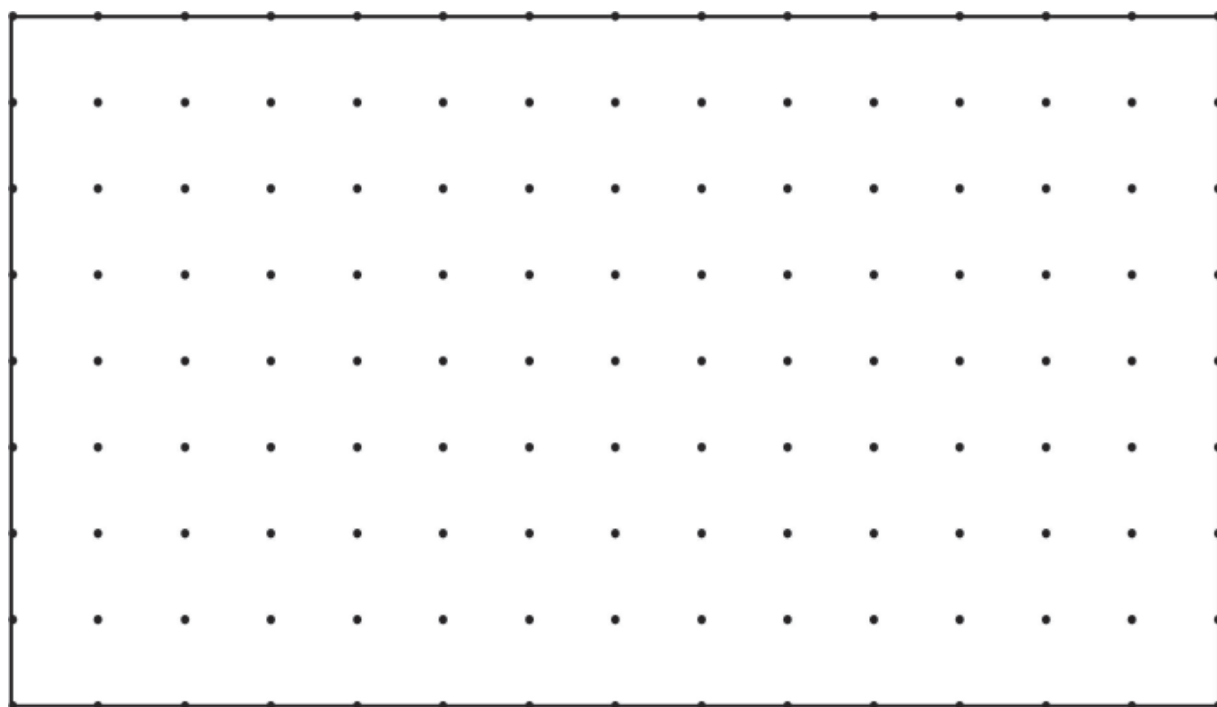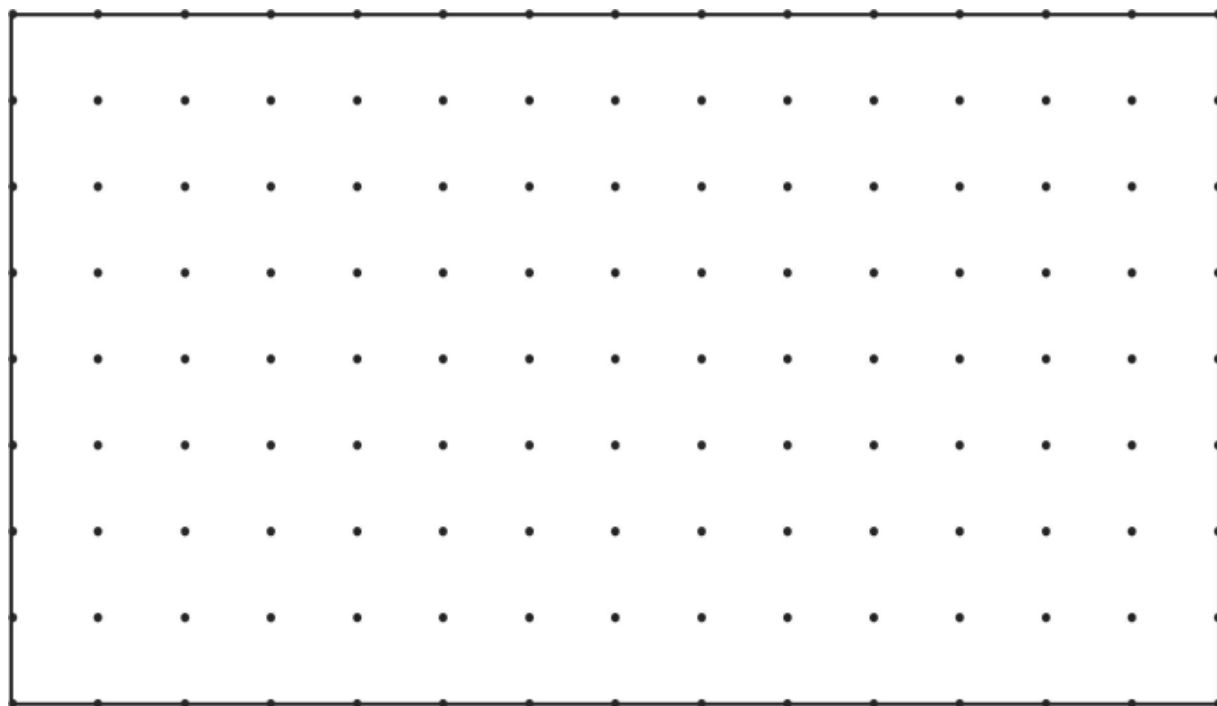
Tiles of different shapes-

The tiles are fixed on floor in such a way that it cover the whole floor and no empty space is left.

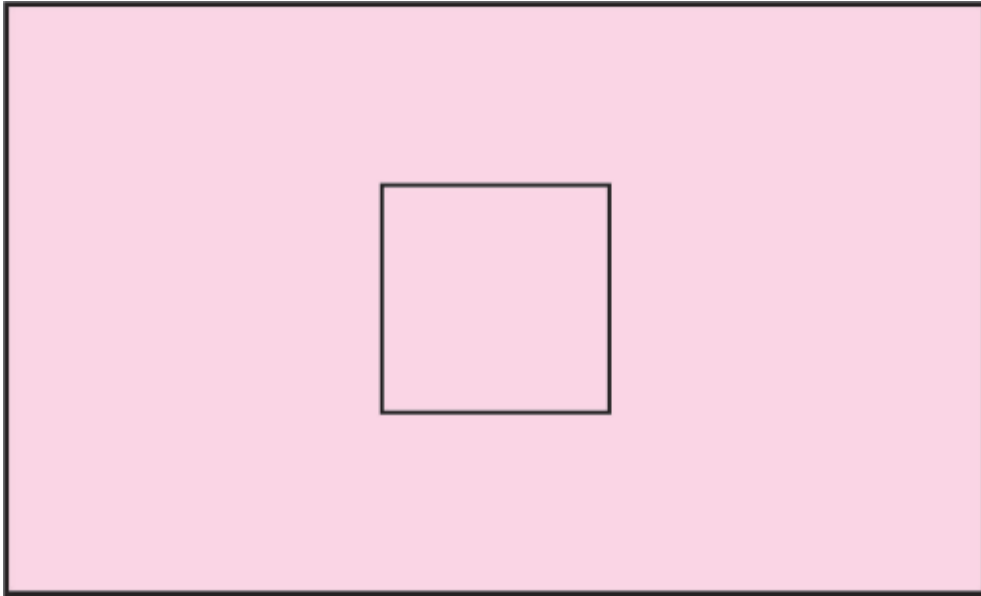Now you fill the floor with the given tiels.
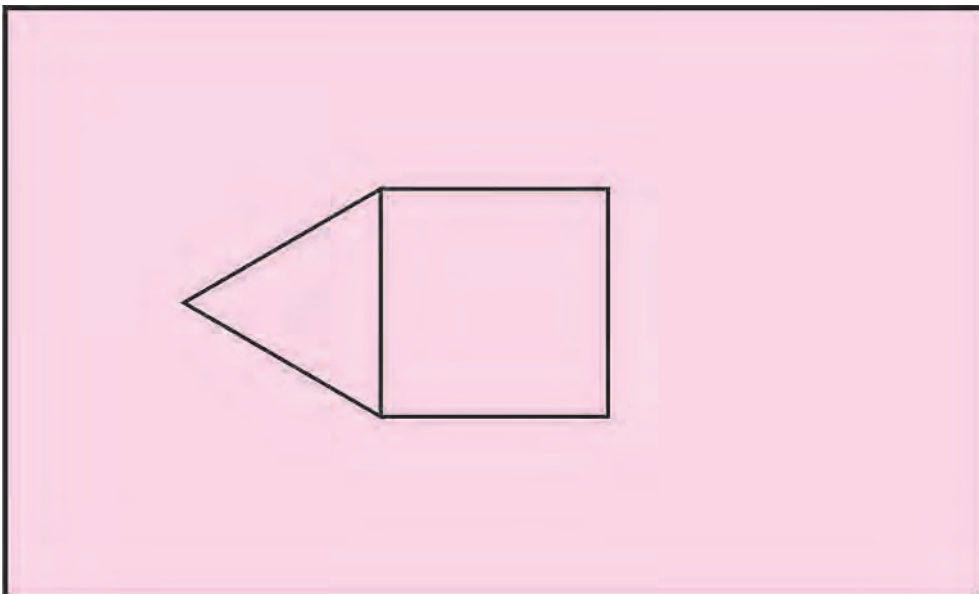
Make tiles of your choice and color them.
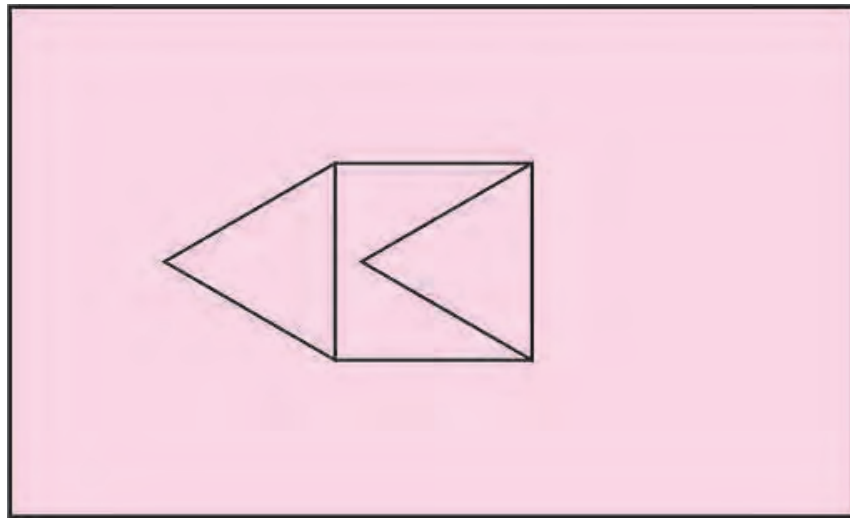
Make your own tiels -

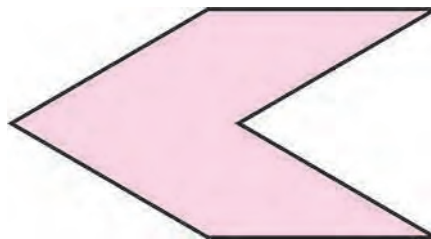**Take a piece of thick paper. Make a square of 3 c.m.**

Make a triangle on any of the sides of the square.

Make another triangle on the other side of the square with the same measurement.
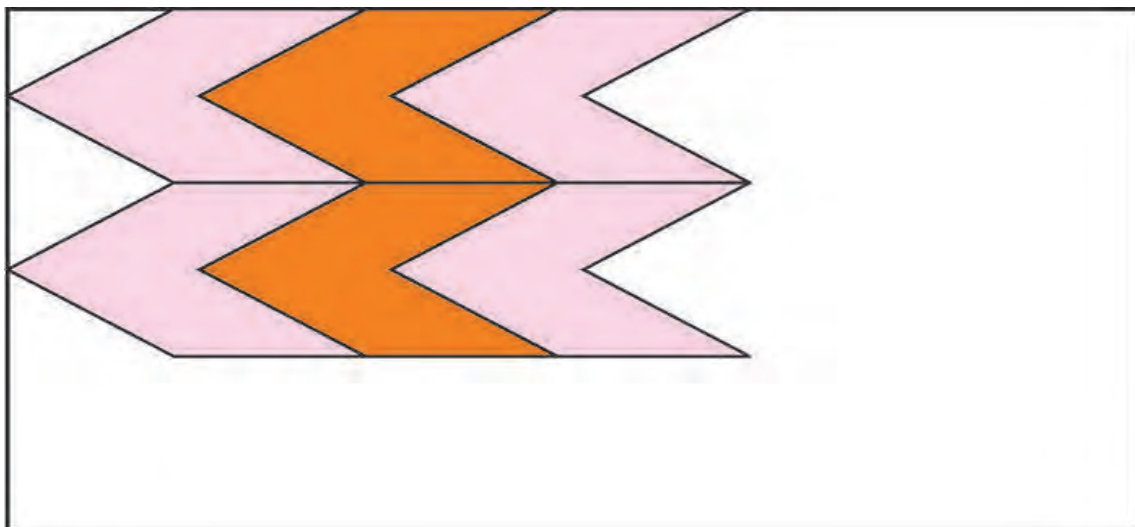

Now cut it, your tile is ready.

Keep this tile on the drawing sheet, page and make an outline using a pencil. Similerly make one after the other keeping in view that no empty space is left in between.

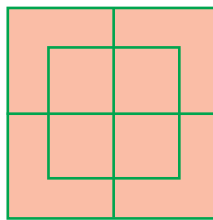The pattern will look like this-

RIDDLES

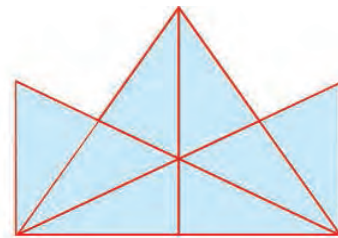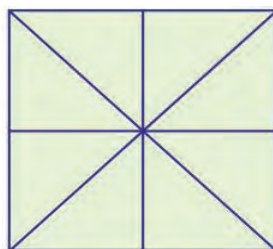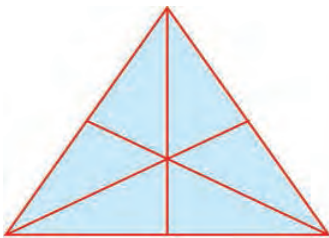1. Make a shape with 8 match sticks as shown in the figure. Now change the position of three matchsticks in such a manner that the direction of the figure is reversed.

2. Change the position of 3 circles in such a way that the direction of the figure is reversed.
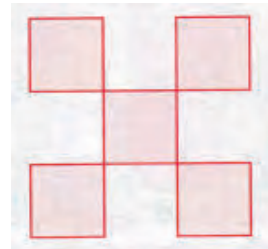
3. How many squares are there in the figure ?

4. Tell the number of triangles in each figure ?

5. 5 squares are there. Change the position of any four sides in such a way so that they become 7 squares.
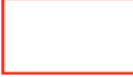
6. Place 10 stones in five columns in such a way that 4 stones are there in each column.

In children's magazines such riddles are given. Solve them. You can also make riddles and give it to your friends to solve it.

BRAIN EXERCISE

What will be in the last box?

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.