



School:

Name of Student:

Sets: square

Further tools: paper, coloured pencil, calculator

Date:

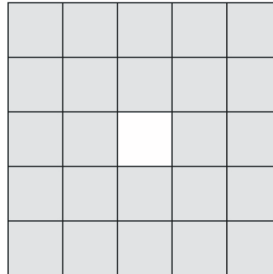
**STUDENT**

**PUSE Task Number**

**BC**

**409**

**Description of the task:**



1. Construct a large square shape with total side connection in a 5×5 arrangement with a hole in the middle, putting down the elements randomly. How many different layouts are possible with this rule?
2. Construct the shape with same size connections at the vertices.
3. Construct the shape with same colour connections at the vertices.
4. Construct the shape with same colour and size connections at the vertices. What kind of shape do you get if you put down all of the basic elements with this rule?
5. Construct the shape with different colour and size connections at the vertices.
6. Is there a solution to different colour and size connections if we consider the base colour instead of the hole on the elements?

**Solution(s) of the task:**

**Remarks / Self-evaluation:**