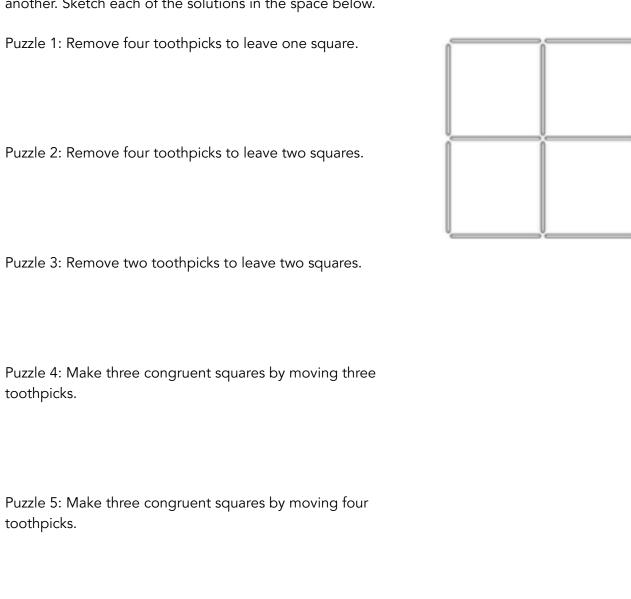
The Toothpick Challenge

Part 1: Arrange 12 toothpicks in the shape shown to the right. Now try to complete as many of the puzzles as you can. Remember that the finished product should be *only* what is listed (no extra toothpicks making incomplete squares) and you can't place toothpicks on top of one another. Sketch each of the solutions in the space below.

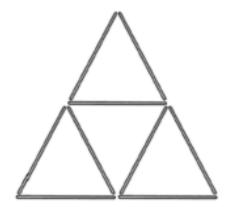


Now write your own problem using the given

figure.

Part 2: Make the new shape shown on the right with 9 toothpicks. Try to complete as many of the puzzles as you can (again, no extra toothpicks dangling around). Sketch each of the solutions in the space below.

Puzzle 6: Remove three toothpicks to leave one triangle.



Puzzle 7: Remove three toothpicks to leave two triangles.

Puzzle 8: Remove four toothpicks to leave two triangles.

Puzzle 9: Remove two toothpicks to leave two triangles.