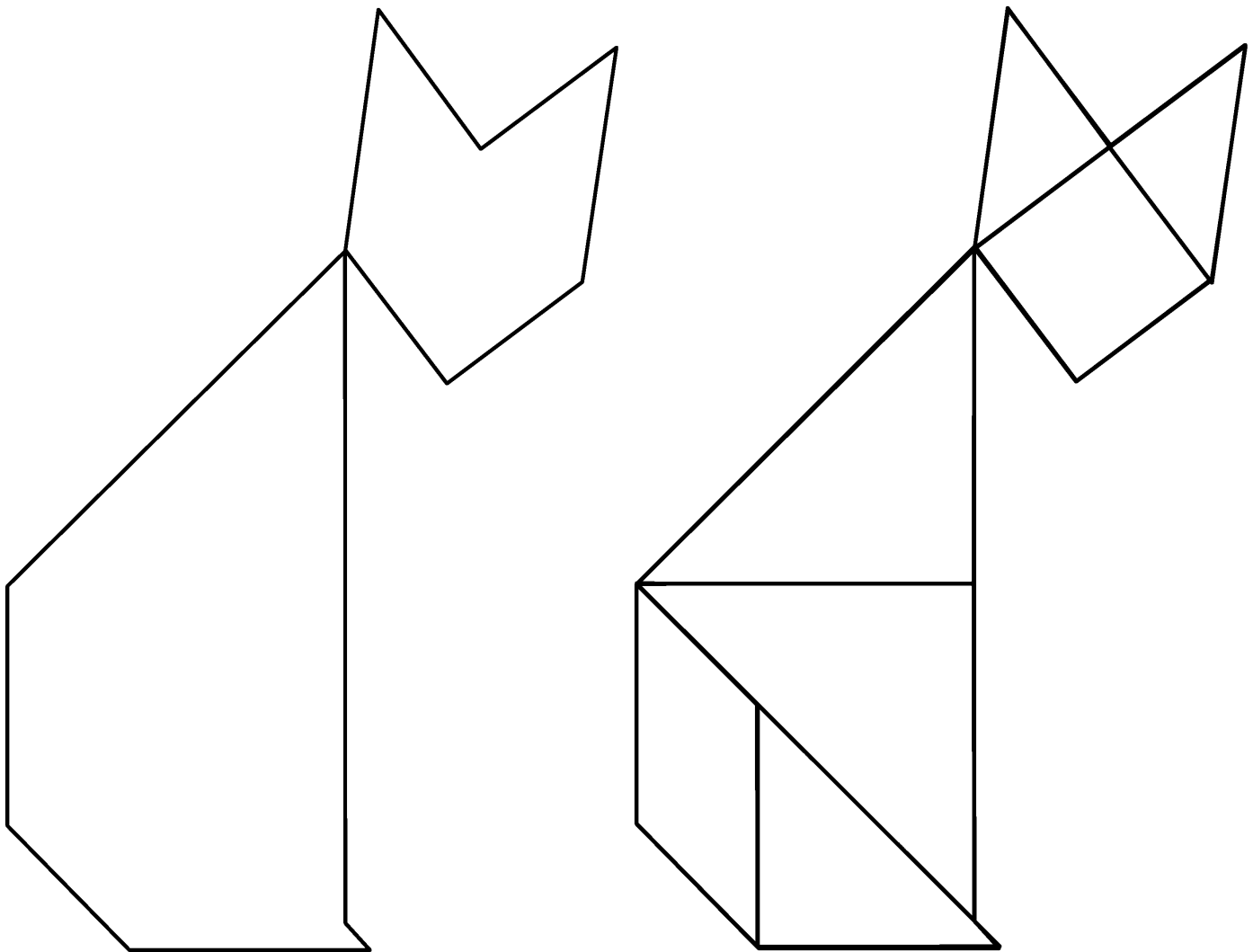

Table of Contents

Getting Started.....	5
Tangram Pieces.....	9
Tangram Puzzles.....	10
Geometric Tangram Puzzles.....	17
Tangram Investigations.....	23
Parts of One.....	29
More Investigations.....	37
Problem Solving.....	39
This is One.....	48
Solutions.....	54



Challenging Tangram Puzzles

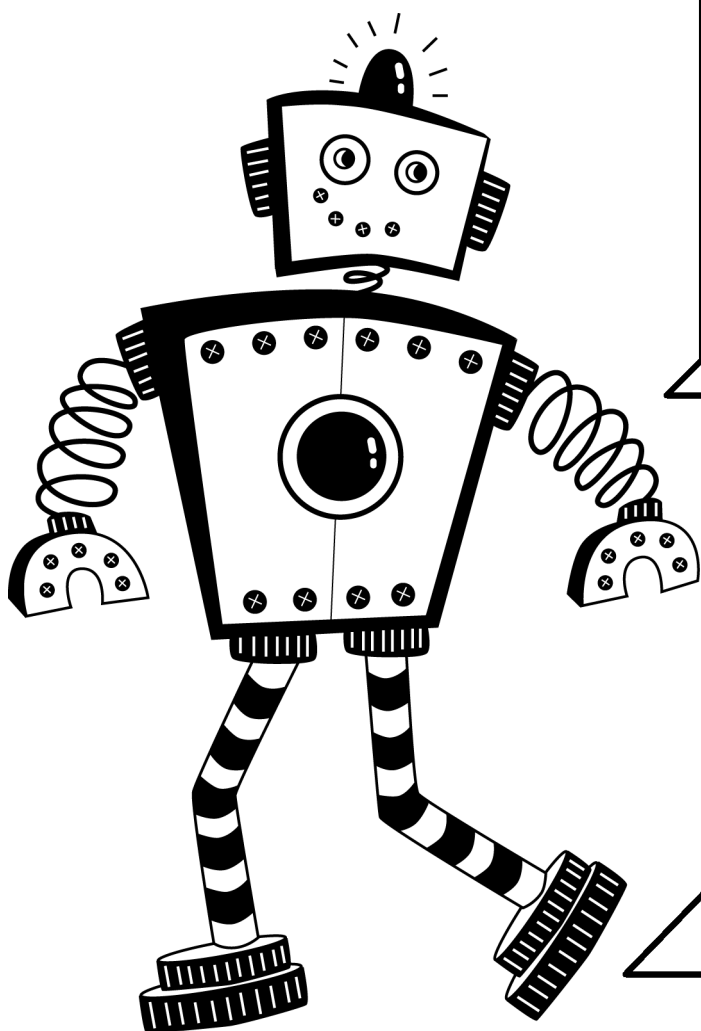
For years, children and adults have been engrossed with producing and solving tangram puzzles. Producers of tangram puzzles usually like to show the general outline of some recognizable form or figure and challenge the rest of us to fill in the forms and figures with all seven of the tangram pieces. We too would like to try our luck and present a challenge to those of you who accept puzzle challenges. Each of the puzzles presented on the following pages can be solved with the seven tangram pieces. This is to say that all seven of the tangram pieces will cover each of the following outlines of the shapes and figures. When you have finished covering the figures, please draw the lines indicating the shapes used to solve the puzzle. See our cat puzzle below.





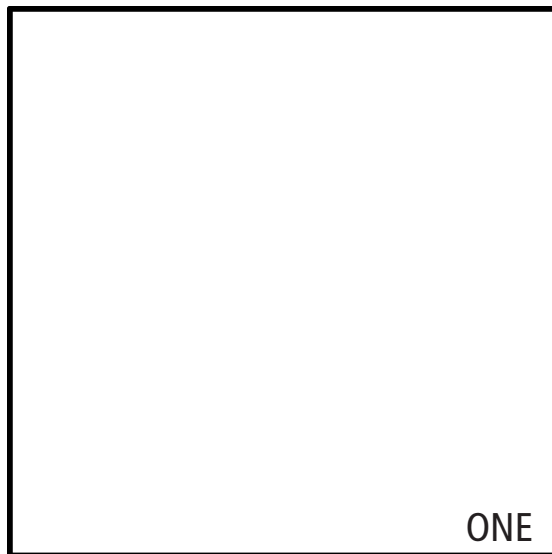
Tangram Puzzle: 3

Cover with all 7 tangram pieces and draw in the lines.





Parts of One: 3



How many of the  will cover this one square? _____


How many of the  will cover half of the square? _____

Write the fraction for one  . _____

Write the fraction for two  . _____

Write the fraction for three  . _____

Write the fraction for four  . _____

Write the fraction for six  . _____

Write the fraction for eight  . _____

Another name for $\frac{2}{8}$ is _____. $\frac{2}{8} =$ _____

Another name for $\frac{4}{8}$ is _____. $\frac{4}{8} =$ _____

Another name for $\frac{6}{8}$ is _____. $\frac{6}{8} =$ _____

Another name for $\frac{8}{8}$ is _____. $\frac{8}{8} =$ _____