

# 7 piece tangram puzzle solutions

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A Guide to Solving the 7-Piece Tangram\*\*

### Introduction

The tangram is a versatile puzzle that challenges your spatial reasoning and creativity. With just seven uniquely shaped pieces, it's possible to create an endless variety of silhouettes and designs. Solving a tangram puzzle requires a combination of logic, patience, and a keen eye for detail.

### The 7 Pieces of Tangram

The seven pieces of tangram are:

- 1 large triangle
- 1 medium triangle
- 2 small triangles
- 1 square
- 1 parallelogram

### Solving the Tangram Puzzle

To solve a tangram puzzle, follow these steps:

1. **Examine the target silhouette:** Study the shape you're trying to create with the tangram pieces.
2. **Identify key pieces:** Look for the largest and most distinct pieces that can form the outer boundaries of the shape.

3. **Overlapping and fitting:** Place the pieces on the silhouette, overlapping them as needed to create the desired shape.
4. **Fill in the gaps:** Once the outer boundaries are formed, use the smaller pieces to fill in the empty spaces.
5. **Adjust and refine:** Make adjustments to the placement of the pieces to ensure a perfect fit.

## Solving Tangram Square

To solve a tangram square, follow these steps:

1. **Form the corners:** Use the two large triangles to create the four corners of the square.
2. **Connect the corners:** Place the two small triangles in the gaps between the large triangles to connect the corners.
3. **Fill in the sides:** Use the parallelogram and the square to fill in the sides of the square.

## Strategy for Tangrams

- Start with the largest pieces to form the main structure.
- Use overlapping to create the desired shapes.
- Don't be afraid to experiment with different placements.
- Break complex shapes into smaller segments.
- Use the square as a reference point for measurements.

## Making Tangram Step by Step

To make your own tangram, follow these steps:

1. Cut a square out of cardboard or paper.
2. Divide the square into two halves diagonally.
3. Draw a vertical line in the middle of one of the halves, dividing it into equal quarters.
4. Cut along the diagonals and the vertical line.
5. You will have the seven tangram pieces.

## Rules for Tangram

- All seven pieces must be used in the solution.
- Pieces cannot be torn or bent.
- There are no gaps or overlaps allowed.

## Skills Tangrams Teach

Tangrams foster:

- Spatial reasoning
- Problem-solving
- Visual perception
- Creativity
- Perseverance

## Number of Squares in a 7-Piece Tangram

There is only **one square** in a 7-piece tangram.

## Solving a Puzzle

To solve any puzzle, try these techniques:

- Look for patterns and symmetries.
- Divide the puzzle into smaller sections.
- Eliminate impossible options.
- Try out different combinations.
- Take breaks and come back to the puzzle later.

## Finding the Area of a Tangram

To find the area of a tangram, use this formula:

Area =  $(1/2) \times (\text{base} \times \text{height})$  for triangles  
Area =  $(\text{width} \times \text{height})$  for square and parallelogram

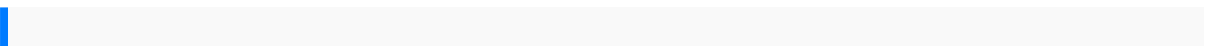
## Measurements for Tangram Pieces

The measurements of the tangram pieces vary depending on the size of the square used.

## Playing with Tangrams

To play with tangrams, try these activities:

- Create different silhouettes and designs.
- Race against a friend to solve a puzzle.
- Use tangrams to make stories or scenes.
- Challenge yourself to solve complex designs.



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