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How to Master the Tangram Puzzle**

What is a Tangram?

A tangram is a puzzle consisting of seven polygonal pieces that can be arranged to form a variety of two-dimensional shapes. The pieces are:

- 5 triangles (2 large, 1 medium, 2 small)
- 1 square
- 1 parallelogram

Solving a Tangram Puzzle

To solve a tangram puzzle, you must arrange the pieces in a way that forms a specific shape. The shapes can be anything from animals and objects to geometric figures.

Step-by-Step Guide to Playing Tangram

1. **Study the silhouette:** Examine the outline of the shape you want to create.
2. **Identify the starting piece:** Find the piece that best fits a prominent feature of the shape, such as a corner or a straight edge.
3. **Arrange the remaining pieces:** Continue placing the pieces adjacent to one another, carefully considering the angles and orientations.
4. **Fill in the gaps:** Gradually fill in the remaining spaces with the remaining pieces.
5. **Adjust and refine:** As you progress, fine-tune the placement of pieces to ensure they fit snugly and form the desired shape.

Additional Tips

- **Use all the pieces:** All seven pieces must be used in the solution.
- **No overlap or gaps:** The pieces should not overlap or leave any gaps in the shape.
- **Consider different perspectives:** Sometimes, rotating or flipping pieces can reveal new possibilities.

Creating a Tangram Square

To make a tangram square, you need to arrange the pieces in a square shape. This can be done by following these steps:

1. Place the square piece in the center.
2. Add the parallelogram below the square.
3. Add the two small triangles to the sides of the parallelogram.
4. Add the two large triangles to the top of the square.
5. Fill in the remaining space with the medium triangle.

Skills Taught by Tangrams

Tangram puzzles develop a variety of skills, including:

- Spatial reasoning
- Problem-solving
- Pattern recognition
- Creative thinking
- Fine motor skills

Using Tangrams in Mathematics

Tangrams can be used in mathematics education to teach concepts such as:

- Geometry
- Area and perimeter
- Symmetry

- Transformations

Making 3D Tangram Shapes

3D tangram shapes can be created by folding or bending the flat pieces into different shapes. These shapes can include cubes, pyramids, and animals.

Cutting Tangram Shapes

Tangram shapes can be cut from different materials, such as paper, cardboard, or wood. To cut the shapes accurately, use a sharp knife or a craft cutter.

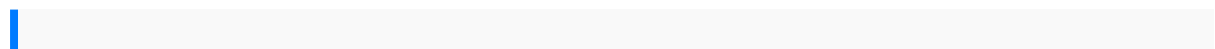## Squares in a 7-Piece Tangram

There are 4 squares in a 7-piece tangram. These include the actual square piece and three squares that can be formed by combining triangles.

Arranging Tangram Pieces

Tangram pieces can be arranged in countless ways to create different shapes. To find the correct arrangement, experiment with different combinations until you find the one that matches the desired silhouette.

Finding the Area of a Tangram

The area of a tangram shape can be calculated by decomposing it into simpler shapes, such as triangles and squares, and finding the area of each individual shape.

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