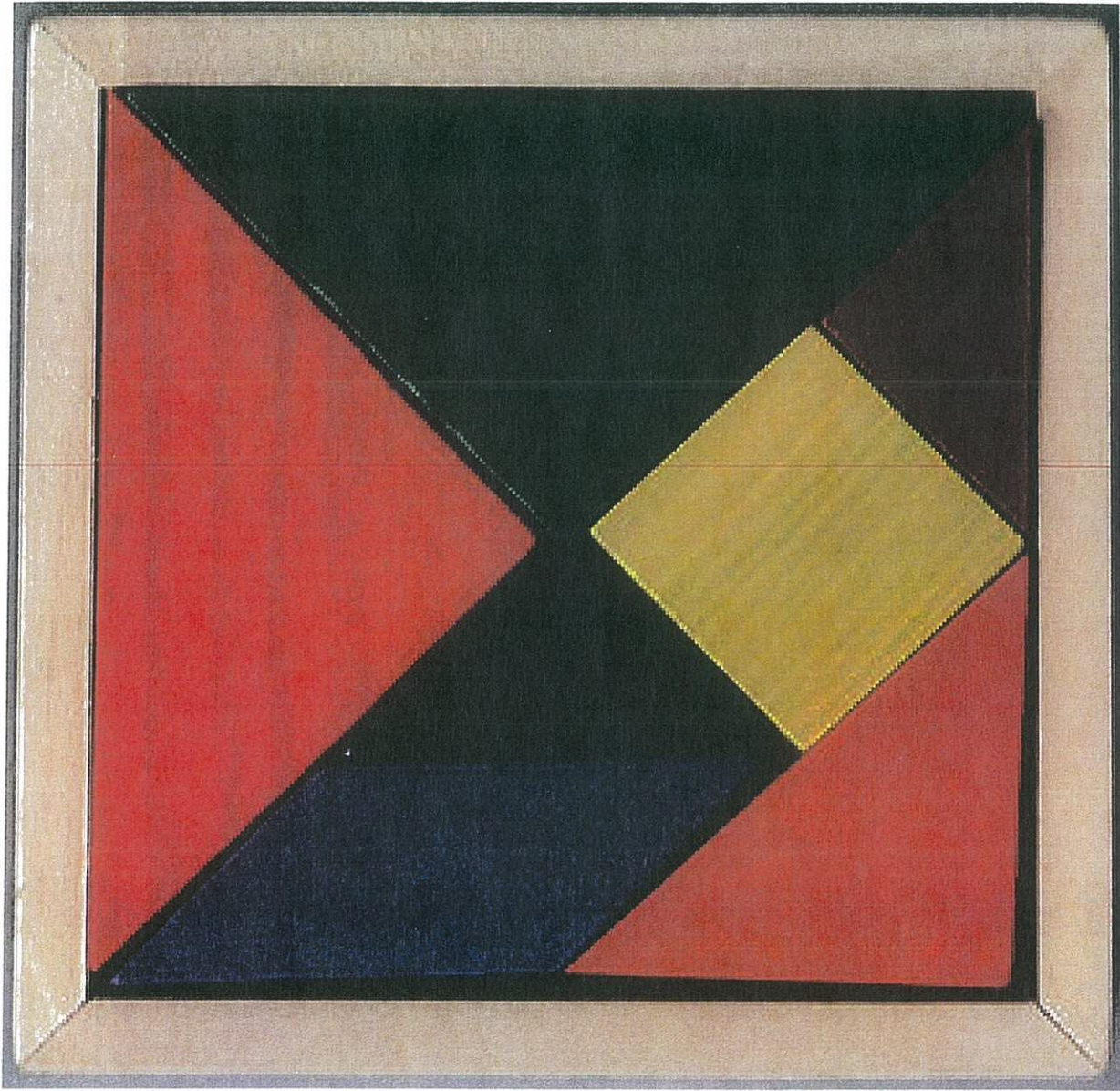


Tangram (七巧板)

Ancient Chinese moving piece puzzle, consisting of 7 pieces made using 3 basic geometric shapes. There are two large, one medium and two small triangles, one square and one parallelogram.



It is a dissection puzzle of seven flat shapes, called *tans*, which are put together to form shapes. The objective of the puzzle is to form a specific shape (given only an outline or silhouette) using all seven pieces, which may not overlap. It was originally invented in China at some unknown point in history, and then carried over to Europe by trading ships in the early 19th century. It became very popular in Europe for a time then and then again during World War 1. It is one of the most popular dissection puzzles in the world.

Some Interesting Tangram Questions

- 1) Arrange the seven pieces, in terms of areas, from the smallest to the greatest or from the greatest to the smallest. Show your work.

2) Form the biggest square by using all the seven tangram pieces. Show your work.

3) Assign the fractional value to each of the seven pieces and arrange them from the smallest fraction to the greatest fraction or vice-versa. Show your work.

- 4) In addition to the fractional value, assign the percentage and decimal values to each of the seven tangram pieces. Show your work.

5) Add: Show your work.

a) All the fractional values of the seven tangram pieces together and find out their sum.

b) All the percentage values of the seven tangram pieces together and find out their sum.

c) All the decimal values of the seven tangram pieces together and find out their sum.

6) Show the fractional, decimal and percentage values of more than 1 or 100% using the given (more than seven) tangram pieces.

Tangram Template (2)

20 cm x 20 cm Tangram

