

## Tangram Polygons

**Objective:** Use tangrams to make triangles, rectangles, parallelograms, trapezoids, and pentagons.

**Materials:** Tangram Polygons Activity Sheet and Transparency  
Tangram Polygons Answer Sheet Transparency  
One set of tangrams per participant

### Procedure:

1. Distribute tangrams and Tangram Polygons Activity Sheets to each participant. Introduce the activity by asking participants if they can make a triangle with one tangram piece? Rectangle? Parallelogram? Trapezoid? Pentagon?
2. Record the results on the Tangram Polygons Transparency. Ask participants to work individually or in small groups and complete the Tangram Polygons Activity Sheet.
3. Let participants work individually or in small groups as trainer circulates from group to group providing assistance and asking questions as necessary.
4. Show the "Tangram Polygons" answer sheet so that participants can see which polygons can be made with specific numbers of tangram pieces.

## TANGRAM POLYGONS

Using the number of pieces indicated in the left-hand column, which polygons can you construct? As long as you use the correct number of pieces, any tangram shapes may be used to construct these polygons.

Make this shape → With this number of pieces ↓	Triangle	Rectangle (That's not a square)	Parallel- ogram (That's not a rectangle)	Trapezoid	Pentagon
1					
2					
3					
4					
5					
6					
7					

## TANGRAM POLYGONS ANSWER SHEET

Using the number of pieces indicated in the left-hand column, which polygons can you construct? As long as you use the correct number of pieces, any tangram shapes may be used to construct these polygons.

Make this shape → With this number of pieces ↓	Triangle	Rectangle (That's not a square)	Parallel- ogram (That's not a rectangle)	Trapezoid	Pentagon
1	Yes	No	Yes	No	No
2	Yes	No	Yes	Yes	No
3	Yes	Yes	Yes	Yes	Yes
4	Yes	Yes	Yes	Yes	Yes
5	Yes	Yes	Yes	Yes	Yes
6	No	Yes	Yes	Yes	Yes
7	Yes	Yes	Yes	Yes	Yes