Handout 1: What's my Shape?

A set of cutout triangles is spread out on the table. Ask the students: "Can you put some of these together that are alike in some way? How are they alike? Can you put some together that are alike in a different way? How are they alike?"
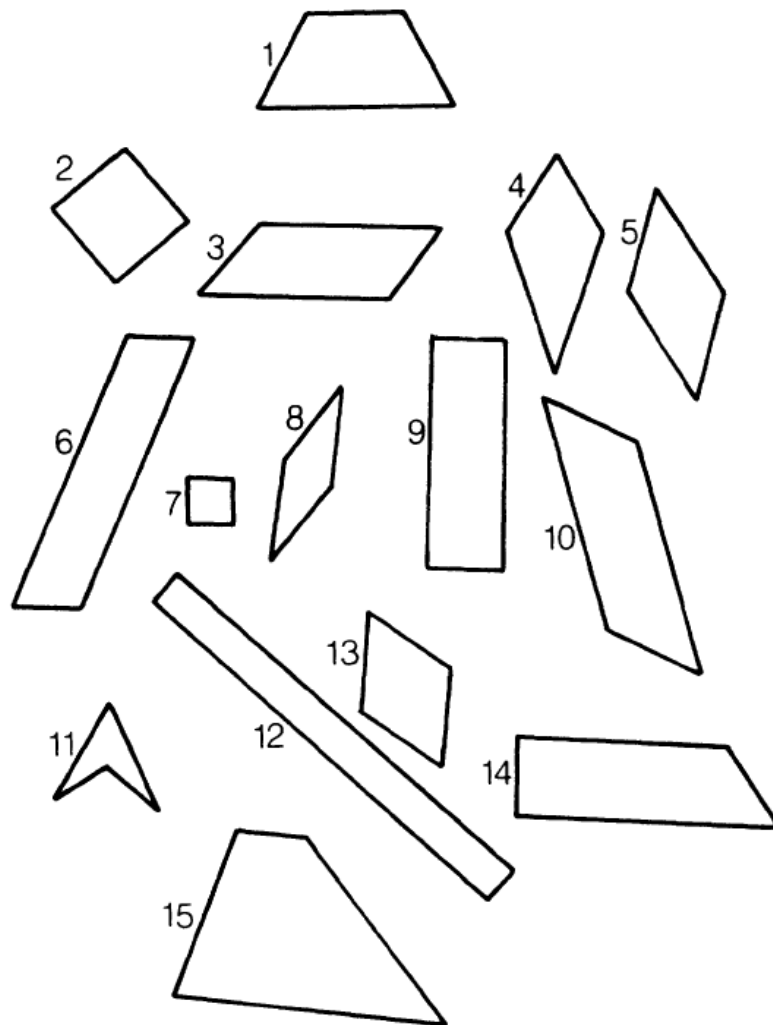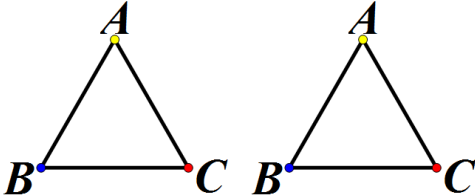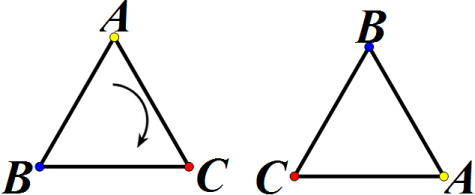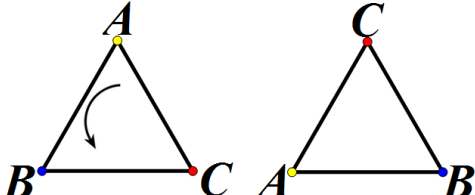

Figure 1. Quadrilaterals to be identified.

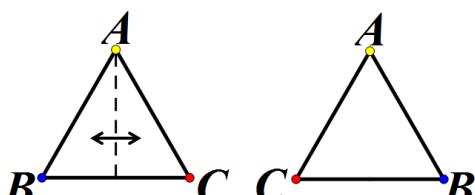# What's my shape?
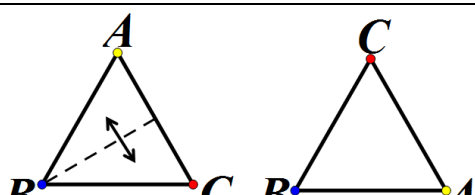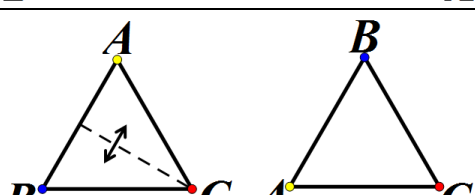
1. It is a closed figure with 4 straight sides.

2. It has 2 long sides and 2 short sides.

3. The 2 long sides are the same length.

4. The 2 short sides are the same length.

5. One of the angles is larger than one of the other angles.

6. Two of the angles are the same size.

7. The other two angles are the same size.

8. The 2 long sides are parallel.

9. The 2 short sides are parallel.

Handout 2: Expressing symmetries in terms of *F* and *R*

Original symmetry	In terms of *F* and *R*

Note: Let *F* stand for a flip across the vertical axis and *R* stand for a
      120° clockwise rotation.

Handout 3: Table of calculations

Note: Let *F* stand for a flip across the vertical axis and *R* stand for a 120° clockwise rotation.

Handout 4: Table of calculations (Revisited)

	I	*R*	*R²*	*F*	*FR*	*RF*
I						
R						
R²						
F						
FR						
RF						

Note: Let *F* stand for a flip across the vertical axis and *R* stand for a 120° clockwise rotation. Complete the table using only the list of rules you have made.