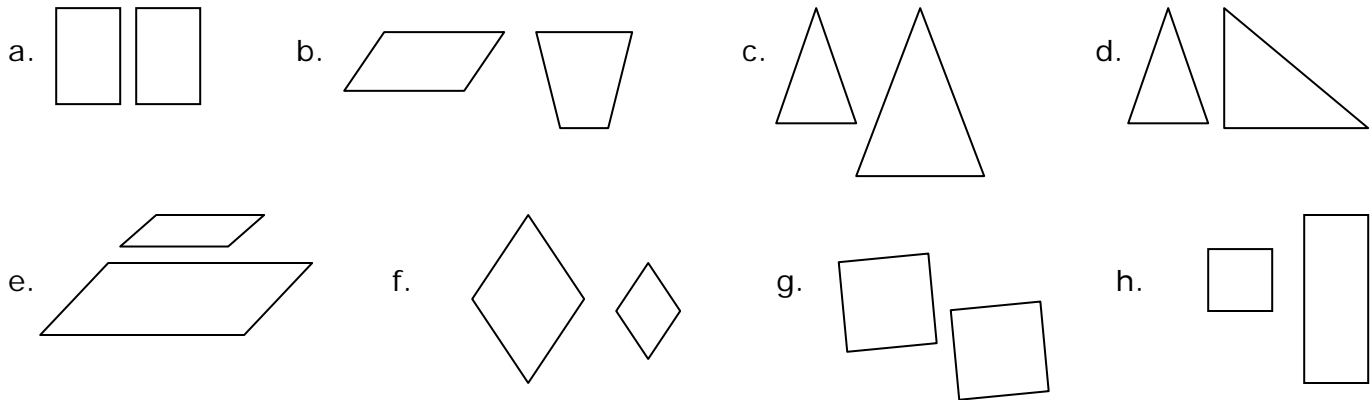


Similar Figures

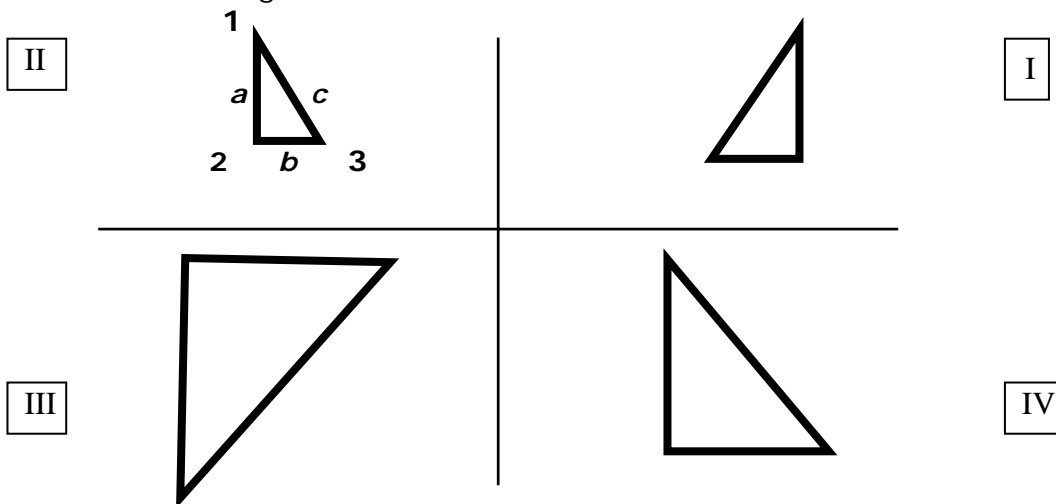
Name _____

1. Circle the shape pairs that are congruent. Underline the shape pairs that look similar.



Similar Figures

2. Fold patty paper in quarters. Sketch a right scalene triangle in one quadrant. Fold the paper and trace to get a triangle in each quadrant. Your patty paper should look like this. Label each angle with a different number beginning with 1, 2, 3 on the smallest triangle located in quadrant II. The first angle label is shown below.



3. Do the 4 figures on the patty paper look congruent or similar? Why do you think so?

Corresponding parts are parts of figures that are in the same position on each figure, but are not on the same figures.

4. **Corresponding Angles:** List all the 4-angle sets that are corresponding.

5. **Corresponding Sides:** Label each side of each triangle using a different letter beginning with "a" on the smallest triangle. The first side labels are shown. List all the 4 side sets that are corresponding in the figure above.

6. For each pair of figures below, a) tell which pairs of angles **correspond**, b) use a protractor to measure each pair of corresponding angles. What pattern do you see in the measures of corresponding angles?

Rectangles:

Trapezoids:

Triangles:

Triangles:

7. If two figures are **similar**, corresponding angles will be _____.

8. For each pair of figures, a) tell which sides correspond, b) Count the units of measure for each pair of corresponding sides. Write the measure for each pair of corresponding sides as a ratio. What pattern do you see with the ratios?

Rectangles:

Trapezoids:

Triangles:

Triangles:

9. If two figures are similar, corresponding sides will be _____.

