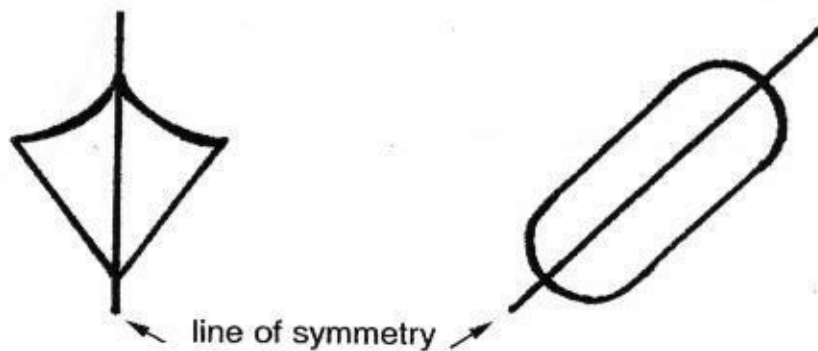


Name _____

Date _____

1-10. How Many Lines?

Another way of looking at mirror (bilateral) symmetry is by finding a line of symmetry within a figure. A figure has a line of symmetry when a line can be drawn that divides the figure into parts that are mirror images of each other.



We can find out if a figure has a line of symmetry by folding it and seeing if each half is the same size (congruent)—a mirror image.

Some figures have more than one line of symmetry. Get a paper rectangle, triangle, square, and hexagon from your teacher. Take the rectangle and fold it in half so both sides are equal. Open it. The fold shows us the line of symmetry. Draw that line of symmetry on the rectangle. Fold the rectangle a different way to show another line of symmetry. Open the paper and draw that line of symmetry.

1. Can the rectangle be folded any other way to show a different line of symmetry?
_____ A rectangle has how many lines of symmetry? _____
2. Find the number of different ways the triangle can be folded to show a line of symmetry. Draw each line on the triangle and complete the following sentence. An equilateral triangle has _____ lines of symmetry.
3. Now fold the square. Be sure to look for and draw all of the different lines of symmetry. A square has _____ lines of symmetry.
4. Find and draw all the lines of symmetry on the hexagon. A hexagon has _____ lines of symmetry.
5. An octagon would have _____ lines of symmetry. Why? _____