

Name _____ Date _____

ORIGAMI MATH

Be sure you understand the following terms before beginning this lesson:

Perimeter—the sum of all sides (linear units)

Area of a triangle— $A = \frac{1}{2} bh$

Area of a rectangle— $A = lw$

A **right triangle** has a 90 degree angle.

An **obtuse triangle** has one angle greater than 90 degrees.

An **acute triangle's** angles are all less than 90 degrees.

A **scalene triangle** has no equal sides.

An **isosceles triangle** has at least 2 sides equal.

An **equilateral triangle** has 3 equal sides.

Pentagon- five sides

Hexagon-six sides

Octagon-eight sides

A **line of symmetry** is an imaginary line through a figure. It is created when the figure is folded in half, and the two halves match.

Origami is the ancient art of paper folding. It can be used to explore geometry. Follow the directions (page 3) to complete a simple, traditional origami project. This folding of "man's best friend" will help you understand geometric shapes, perimeters, and areas.

You will need the following to complete the worksheet:

- ruler
- protractor
- 8 inch paper square

Before you begin, read each problem carefully and be sure you understand it. Then answer the questions while making your origami. Be careful: measurements made using the protractor and ruler must be accurate.