## For Creative Minds

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## Shape Parts

All of the shapes in this book are polygons. Polygons are two-dimensional shapes. They have length and width, but no height. Polygons are made of straight lines and angles. Polygons are closed shapes-each line ends where another
 begins.


When all of the angles are equal and all of the sides are the same length, it is called a regular shape.


If the angles are different and the sides are uneven, the shape is irregular.

There are three basic kinds of angles. If the angle measures exactly $90^{\circ}$, it is a right angle. If the angle is less than $90^{\circ}$, it is an acute angle. If it is more than $90^{\circ}$, it is an obtuse angle. Angles are measured with a tool called a protractor.

When two lines meet at a right angle, the lines are called perpendicular.


## Quadrilaterals

A polygon with four lines is called a quadrilateral.
A polygon with four angles is called a quadrangle.


A quadrilateral that has two pairs of parallel sides is a parallelogram. A parallelogram is a type of polygon, a quadrilateral, and a quadrangle.


> A parallelogram with all right angles is called a rectangle. A rectangle is a kind of polygon, a quadrilateral, a quadrangle, and a parallelogram.

A quadrilateral with all equal sides and all right angles is a square. A square is a certain type of polygon, a quadrilateral, a quadrangle, a parallelogram, a rhombus and a rectangle.

## Name that Shape!

Match the description to the shape.


1. This shape is made of six lines that meet to create six angles.
2. Four right angles and four straight lines make this shape. The four sides can be all equal length or it can have two pairs of lines that are different lengths.
3. This shape has five sides.
4. This shape has four sides. It has one pair of parallel sides, but its other two sides are not parallel.

Trapezoid

5. This four-sided shape is a parallelogram made of two pairs of parallel lines. All sides are the same length. The angles can be all right angles, but they don't have to be.
6. Eight sides join together to create this shape.
7. This shape is a kind of rectangle. It has four equal sides and four right angles. It is also a kind of rhombus. Each of the sides is parallel to another side.
8. This shape is made of three angles and three lines.



