

The picture below shows an equilateral triangle, with lines drawn between various midpoints.

Imagine cutting along the lines to make nine smaller shapes.

**What are the angles in each of your smaller shapes?**

**If the area of the smallest equilateral triangle is one unit, what is the area of each of the other shapes?**

Cut along the lines to make the nine smaller shapes. Take a collection of the pieces and rearrange them to make different shapes.

Using the nine smaller shapes:

- **How many different trapezia (which are not parallelograms) can you make?**
- **How many different parallelograms (which are not rectangles) can you make?**
- **How many different rectangles can you make?**
- **Which other quadrilaterals can you make?**

