

Angles in Polygons

Downloadable Resource –

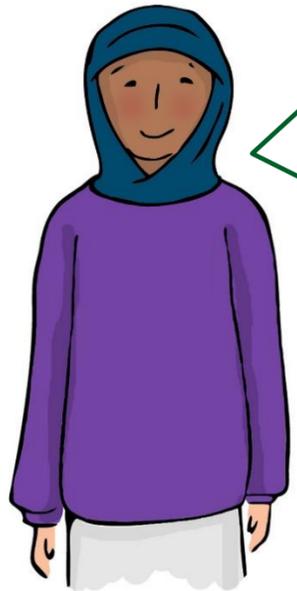
Building shapes from triangles

(Part I)

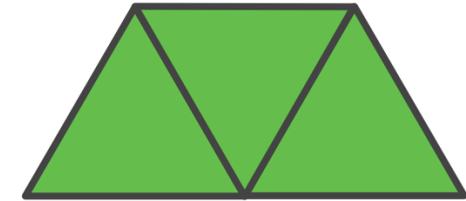
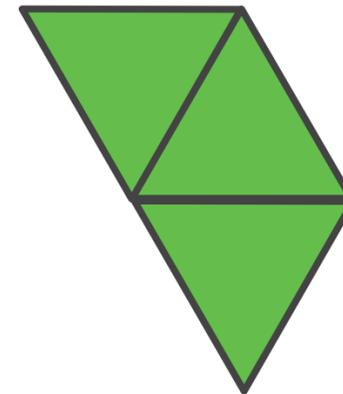
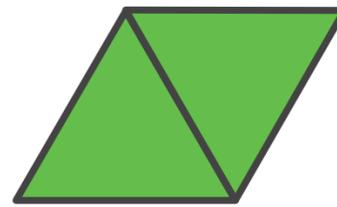
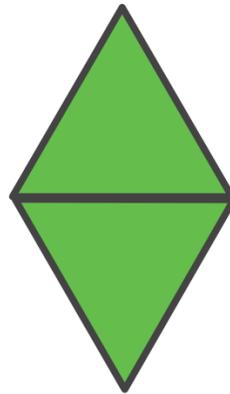


Try this

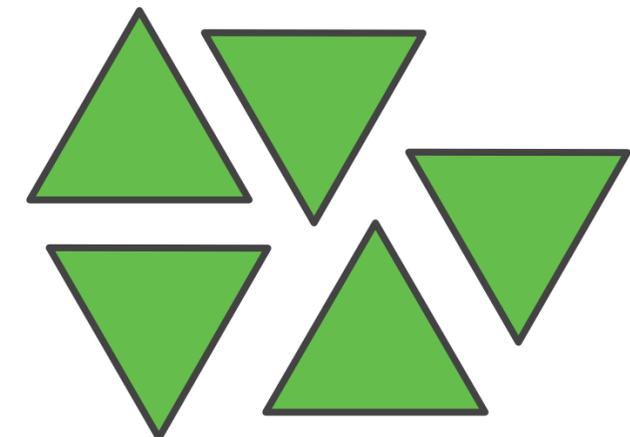
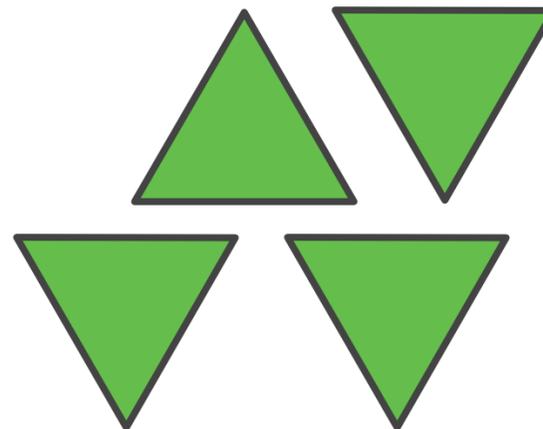
Cala makes shapes by combining congruent equilateral triangles



With 2 triangles I can make a rhombus. With 3 triangles I can make an isosceles trapezium

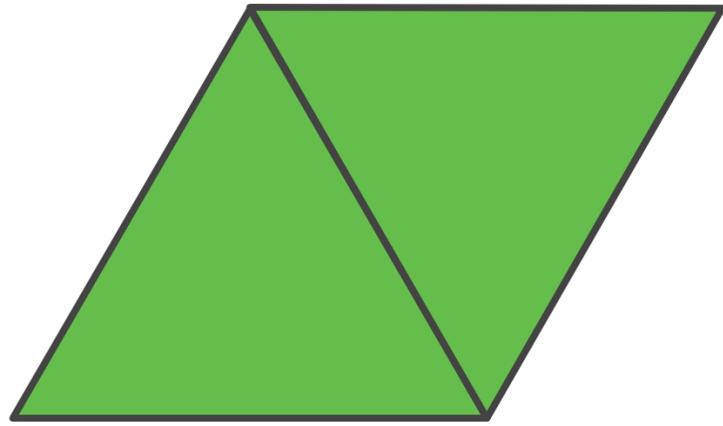


What shapes can she make with 4 triangles? Or 5 triangles?



Connect

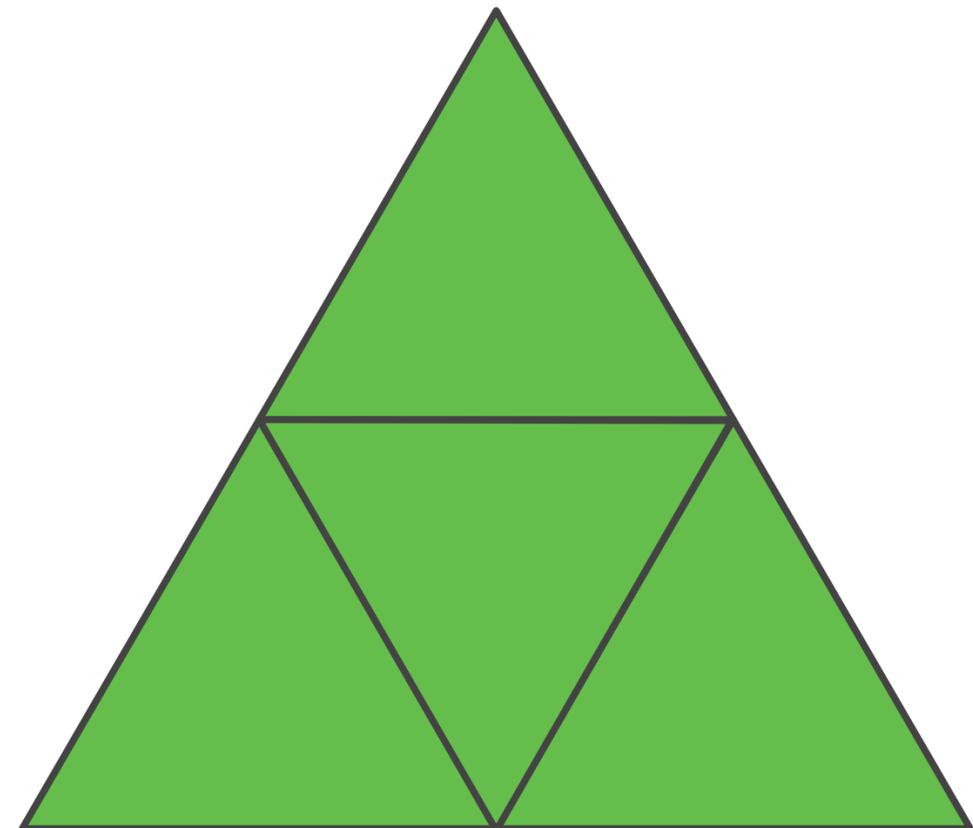
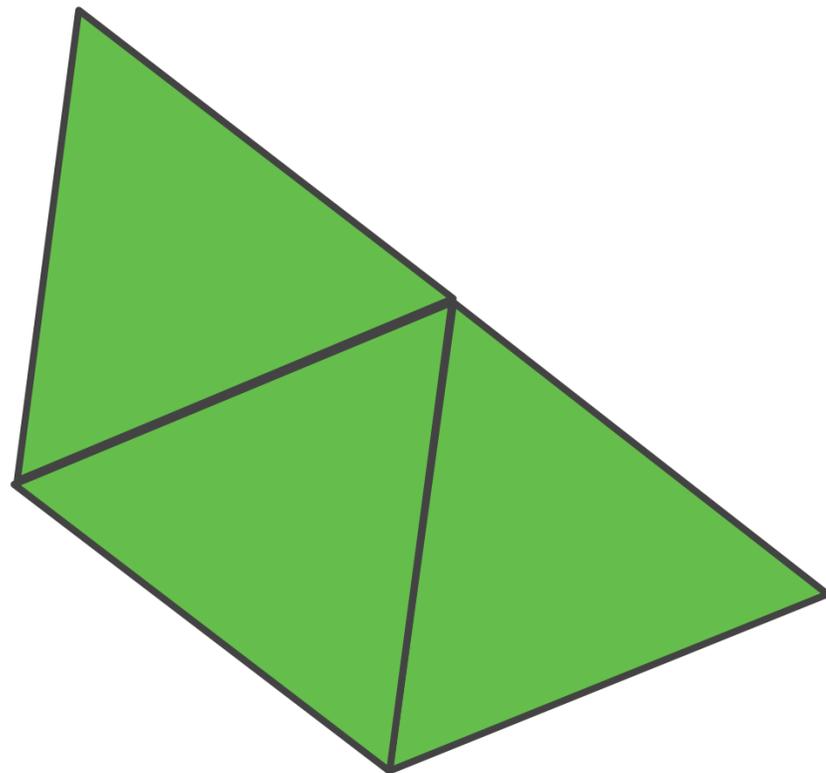
Let's work out the internal angles of this rhombus...



Independent Task

Find all the angles in the triangles below.

Comment on the total interior angles using the notation given (e.g: Quadrilateral ABCD has interior angles that sum to ...)



Explore

This equilateral hexagon and equilateral octagon have been built out of equilateral triangles. Find all the internal angles of these shapes. What other equilateral polygons can you make from equilateral triangles?

