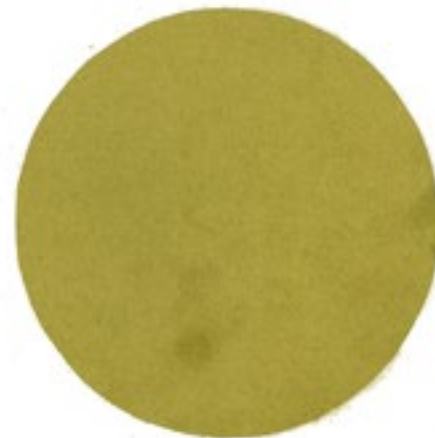




Triangle



Square



Circle

Triangle



=



When an equilateral triangle is divided by the perpendicular drawn from the vertex of an angle to the opposite side, the result is two right-angled triangles. Their hypotenuses are equal to the side of the equilateral triangle. The longer catheti are equal to the height of the equilateral triangle. The shorter catheti form the base which is equal to one half the base of the equilateral triangle.



An equilateral triangle is divided into two equal triangles by a line bisecting the base, drawn from the vertex of the opposite angle.



An equilateral triangle is divided into three equal triangles by the bisectors of the three angles which meet at the center of the equilateral triangle.



An equilateral triangle is divided into four equal triangles by conjoining the mid-points of the sides.



=



The longest side of each obtuse-angled isosceles triangle is equal to the side of the equilateral triangle which has been divided into thirds.



=

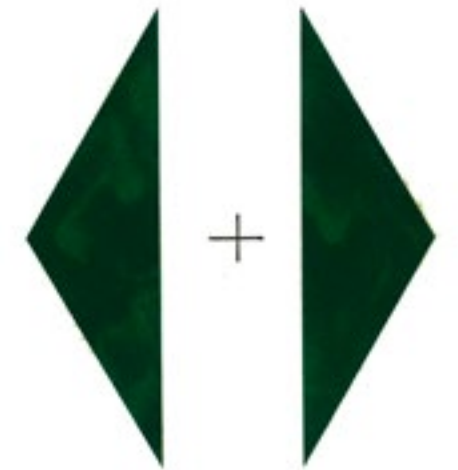


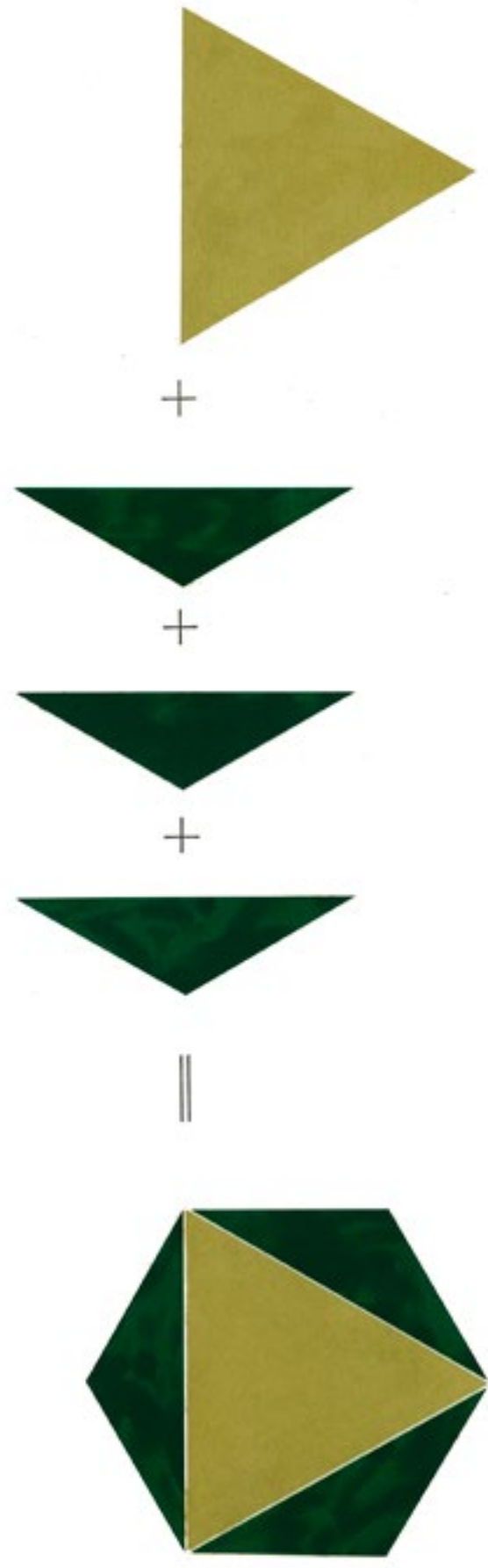
the side of the four small equilateral triangles is equal to one half of the side of the large equilateral triangle.

Similarity

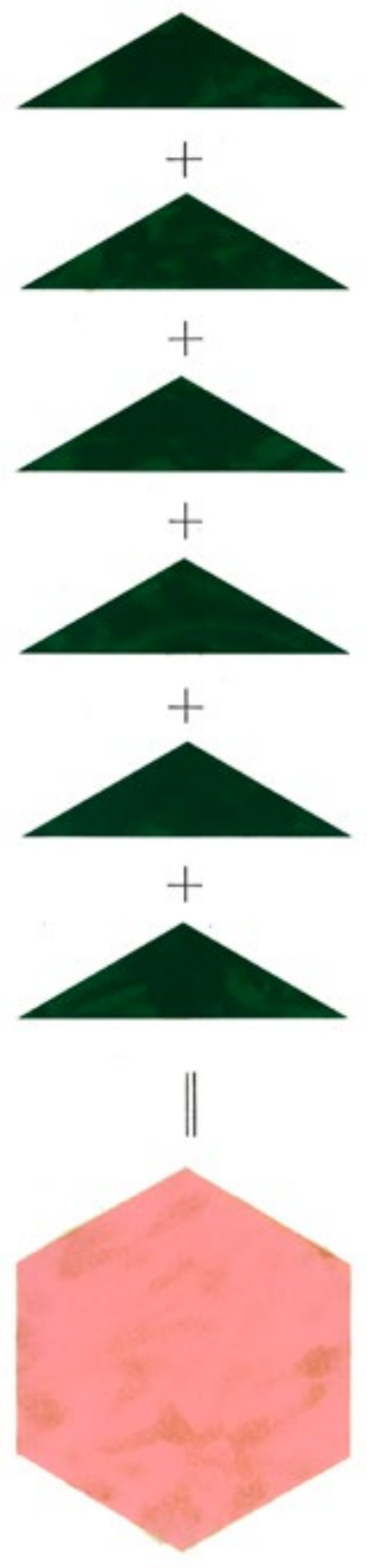


1st Combination



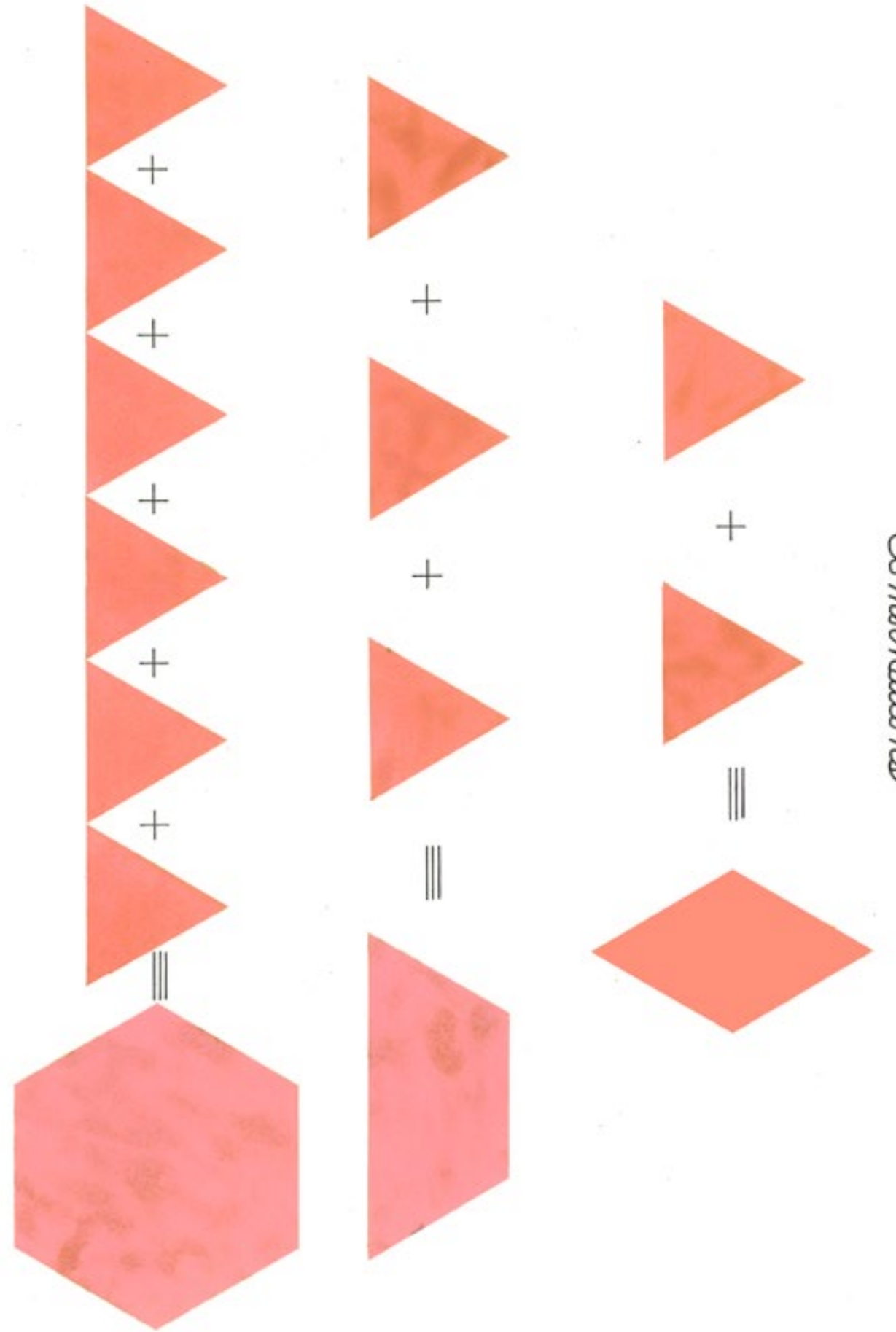
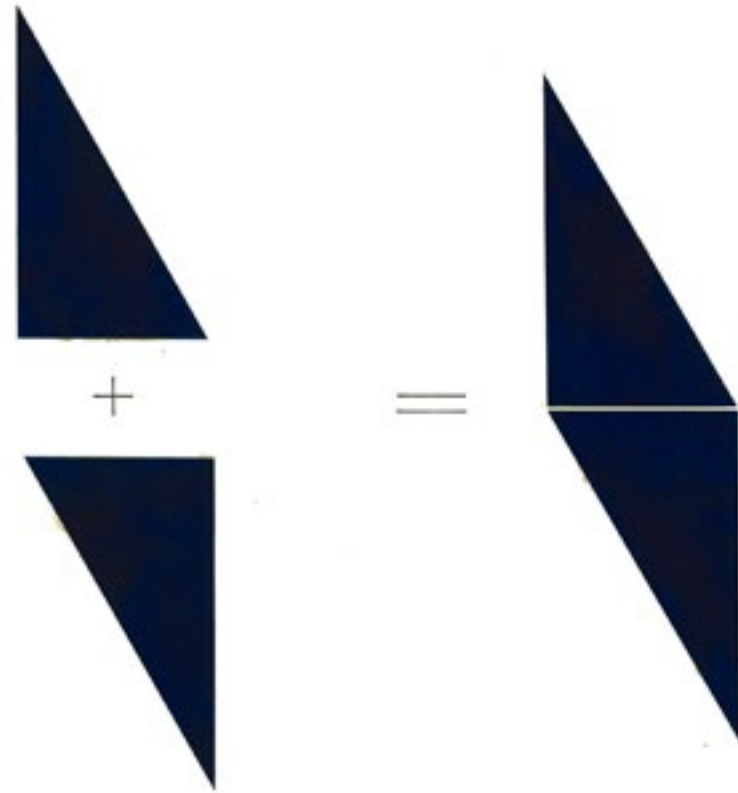


2nd Combination



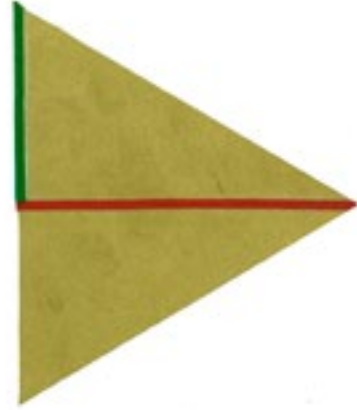
3rd Combination

Combinations



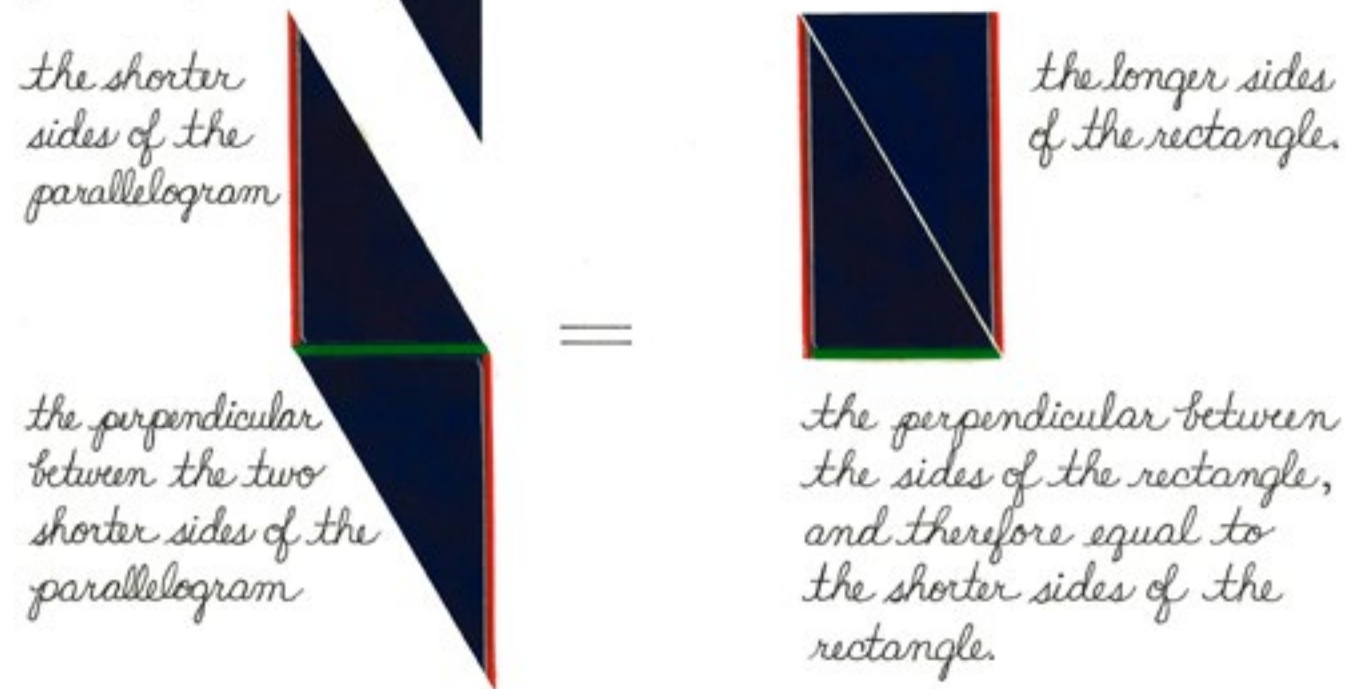
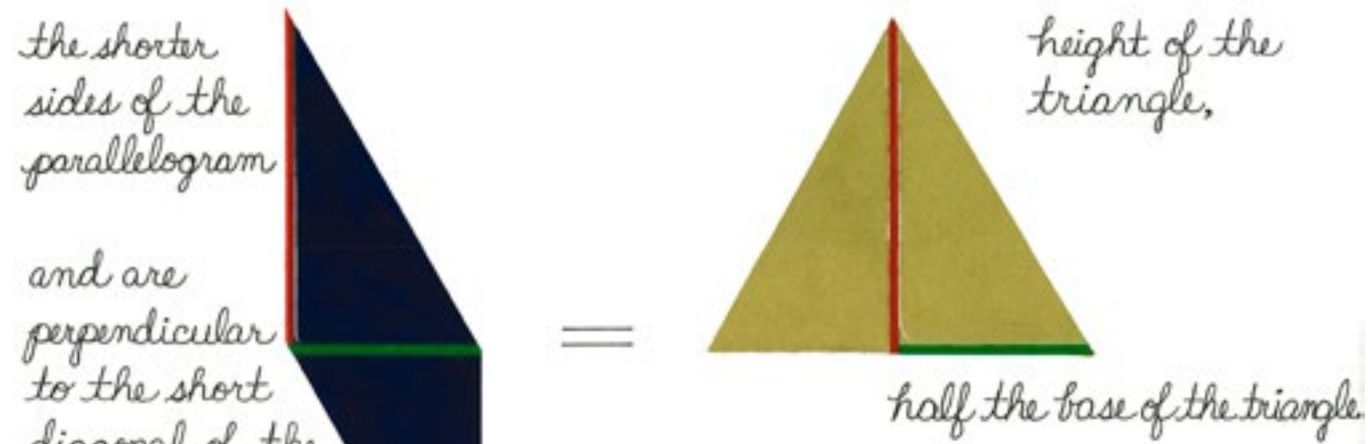
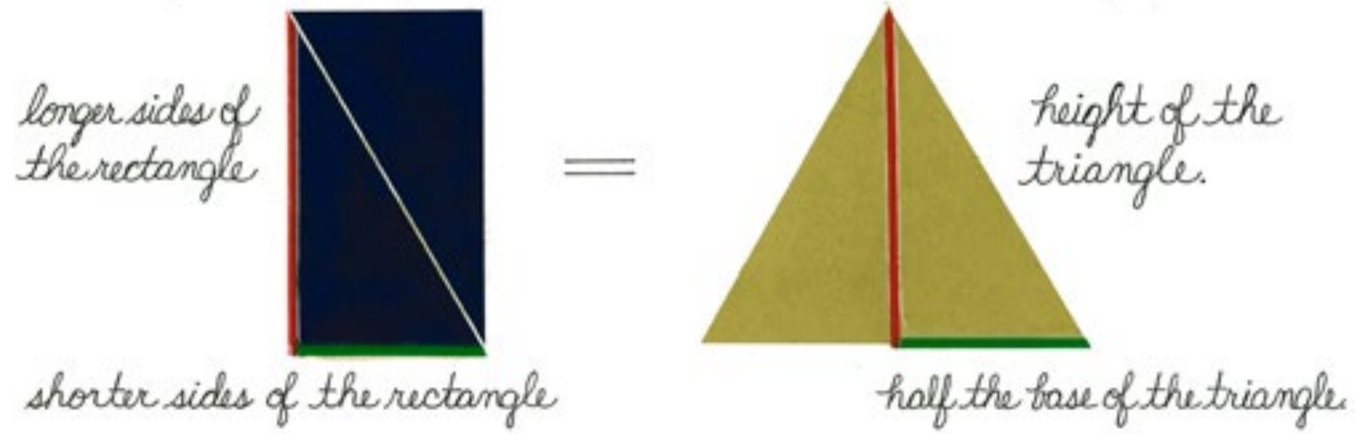
Combinations

Equivalences

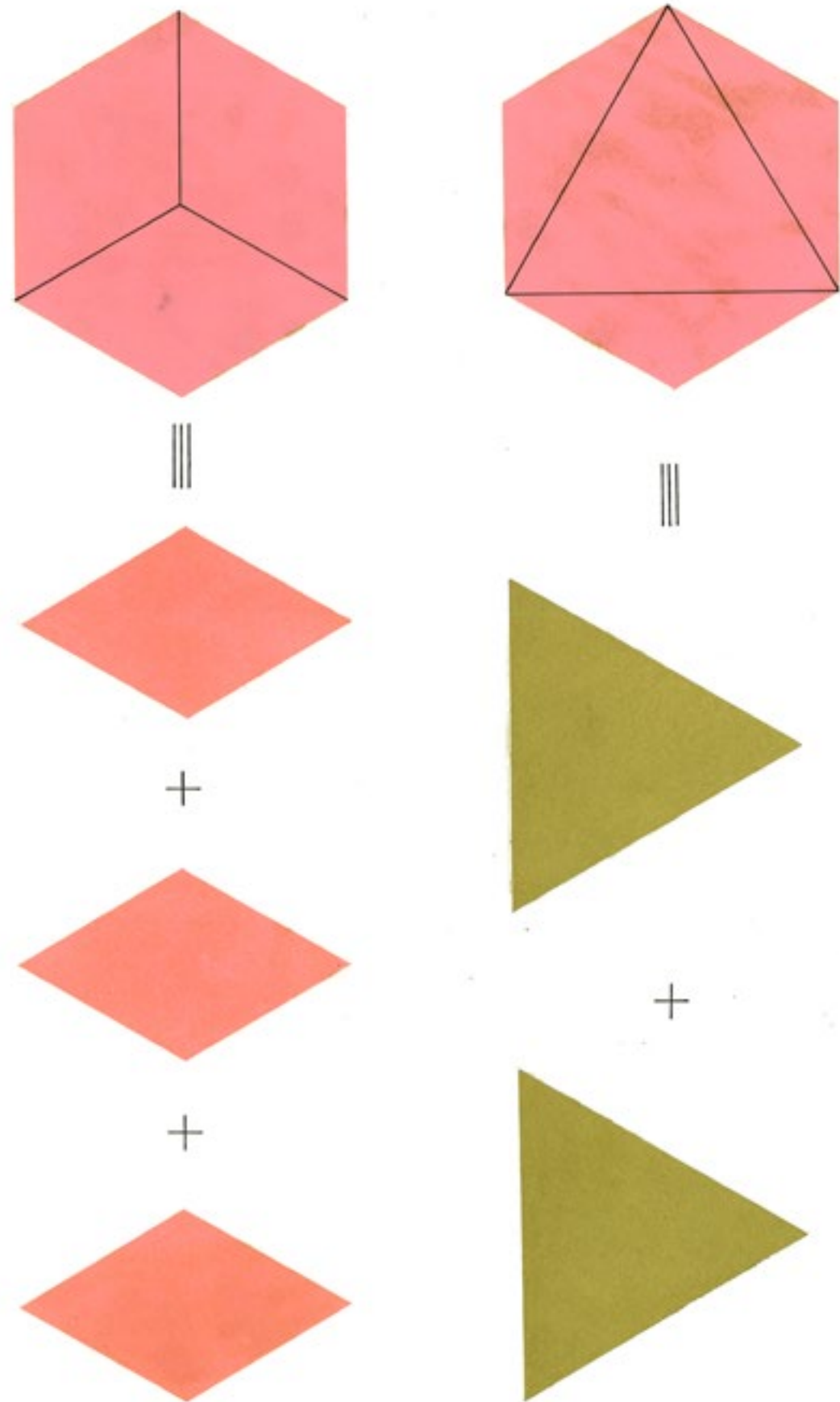


Verification of the relation between equivalent figures

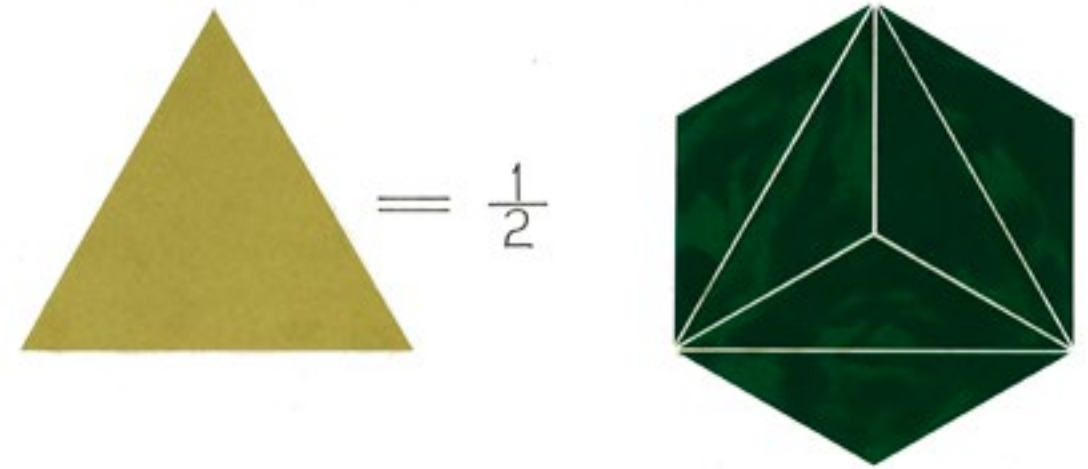
Verification of the relation between equivalent figures.



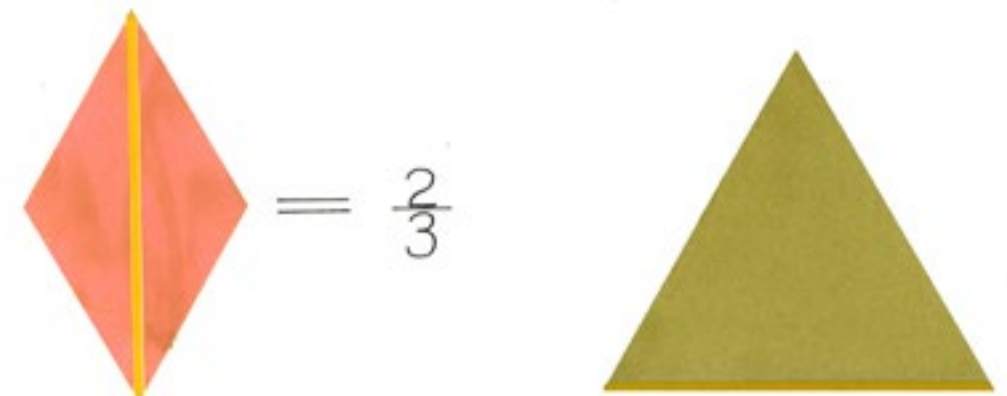
Equivalences



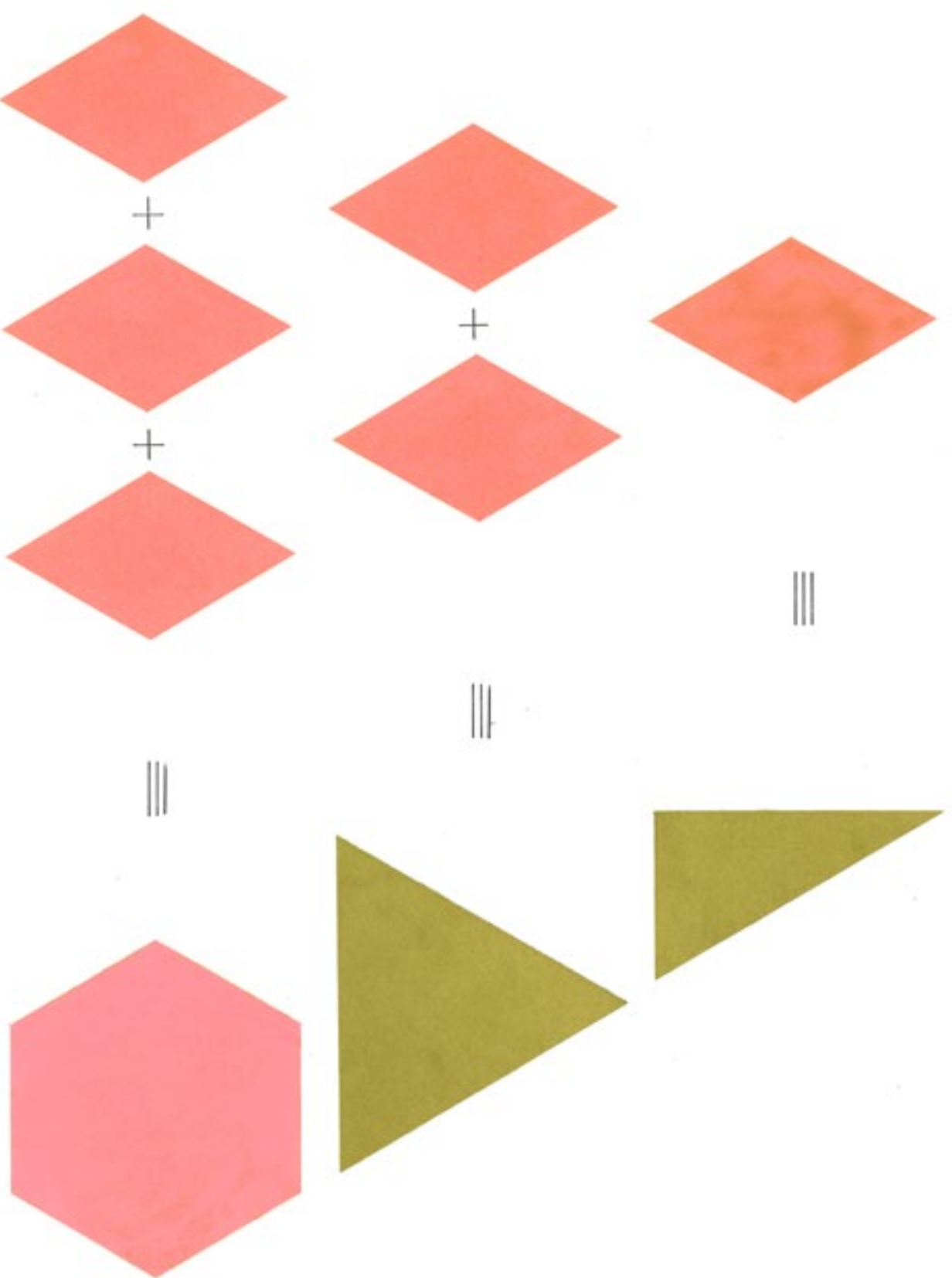
Verification of the relation between equivalent figures



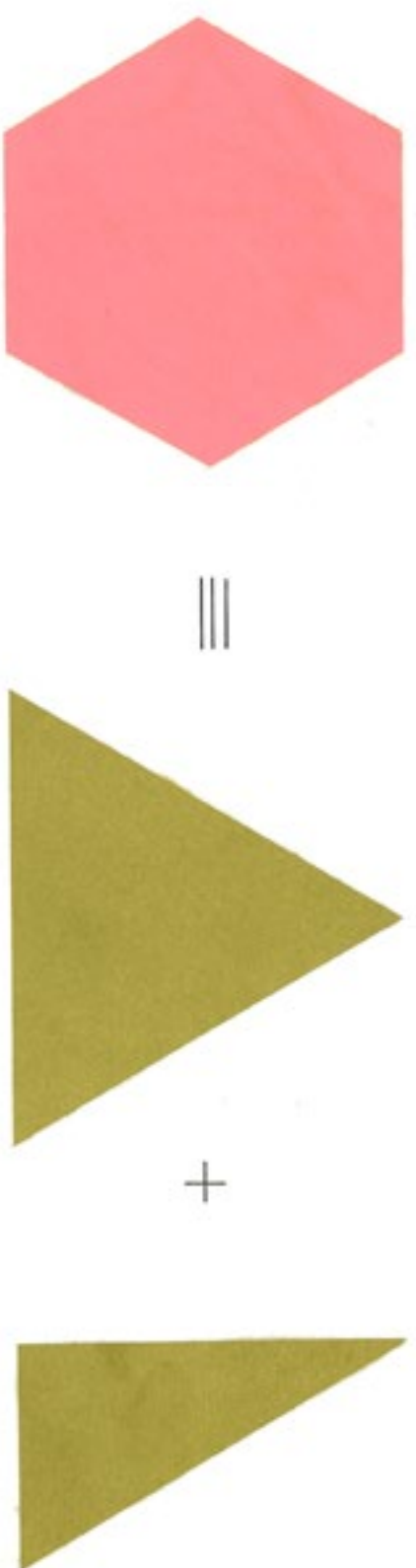
The equilateral triangle is inscribed in the hexagon.



The longest diagonal of the rhombus is equal to the side of the triangle.



Equivalence



The hexagon is equal to the equilateral triangle (composed with $\frac{1}{2}$ of the hexagon) plus the right-angled triangle which is half of the equilateral.

Identity of some lines in equivalent and non-equivalent figures

