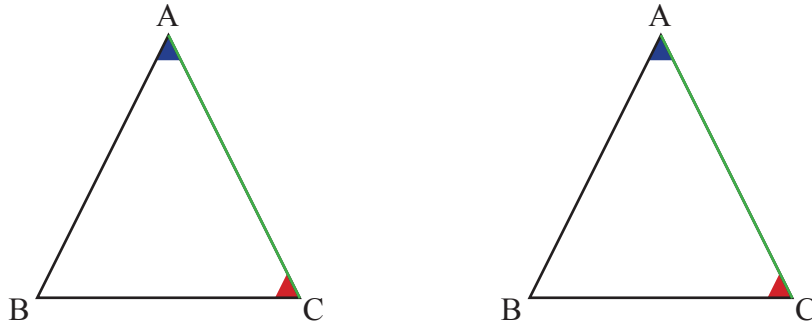


For extension of the similarity concept have the children create a polygon on a larger square graph paper. Have them tell you how to get from the different points to each other (up 2 squares and to the right 5). Once they have done that, you can use smaller squared graph paper and follow same steps. The smaller squared graph paper is a similar polygon (smaller). (Control of error - same distance as normal. Must double check their work).

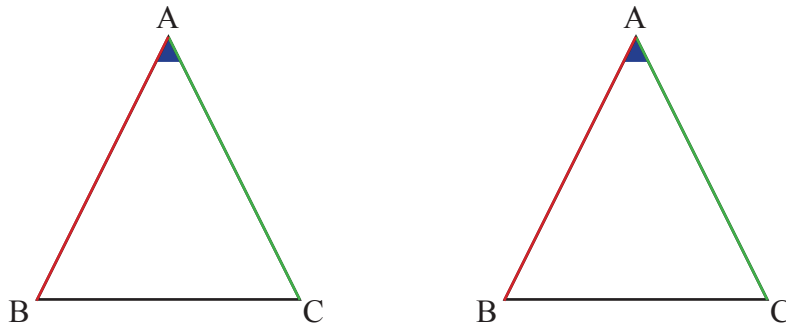
Angle - Side - Angle.

If you have a triangle that has an angle, a side and another angle equal, they must be congruent.



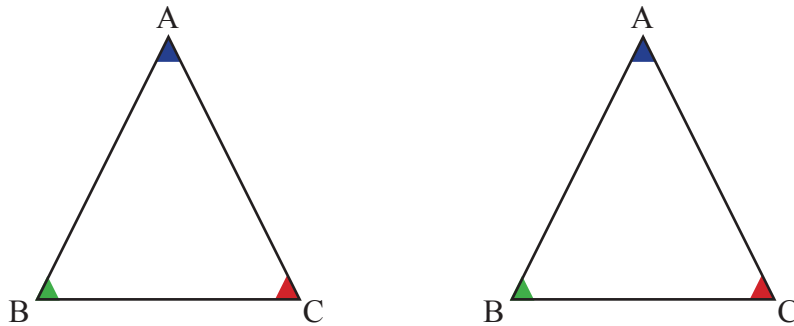
Side - Angle - Side.

If you have a triangle that has a side, an angle and another side equal, they must be congruent.



Angle - Angle - Angle.

If you have a triangle that has an angle, an angle and another angle equal, they must be congruent.



Side - Side - Side.

If you have a triangle that has a side, a side and another side equal, they must be congruent.

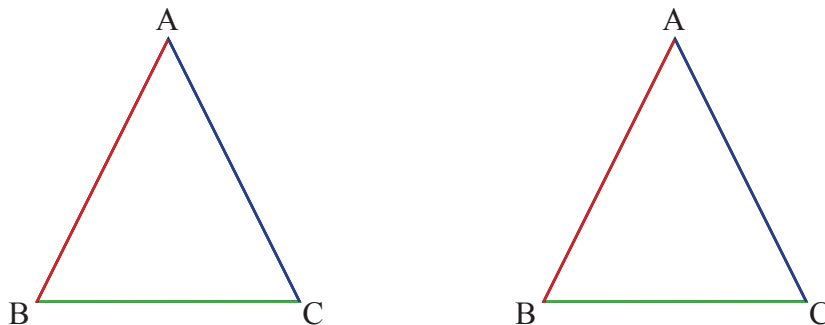
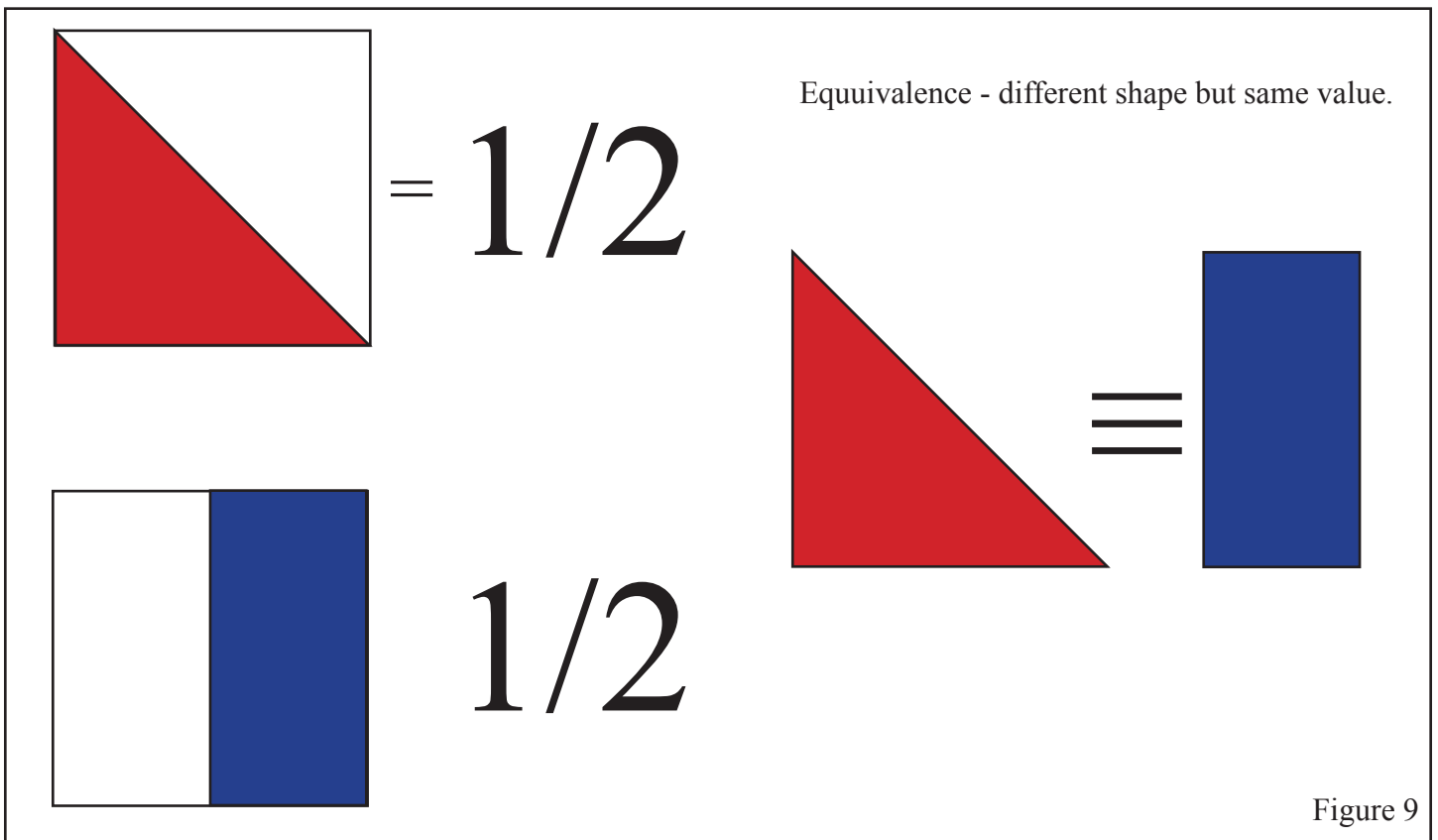
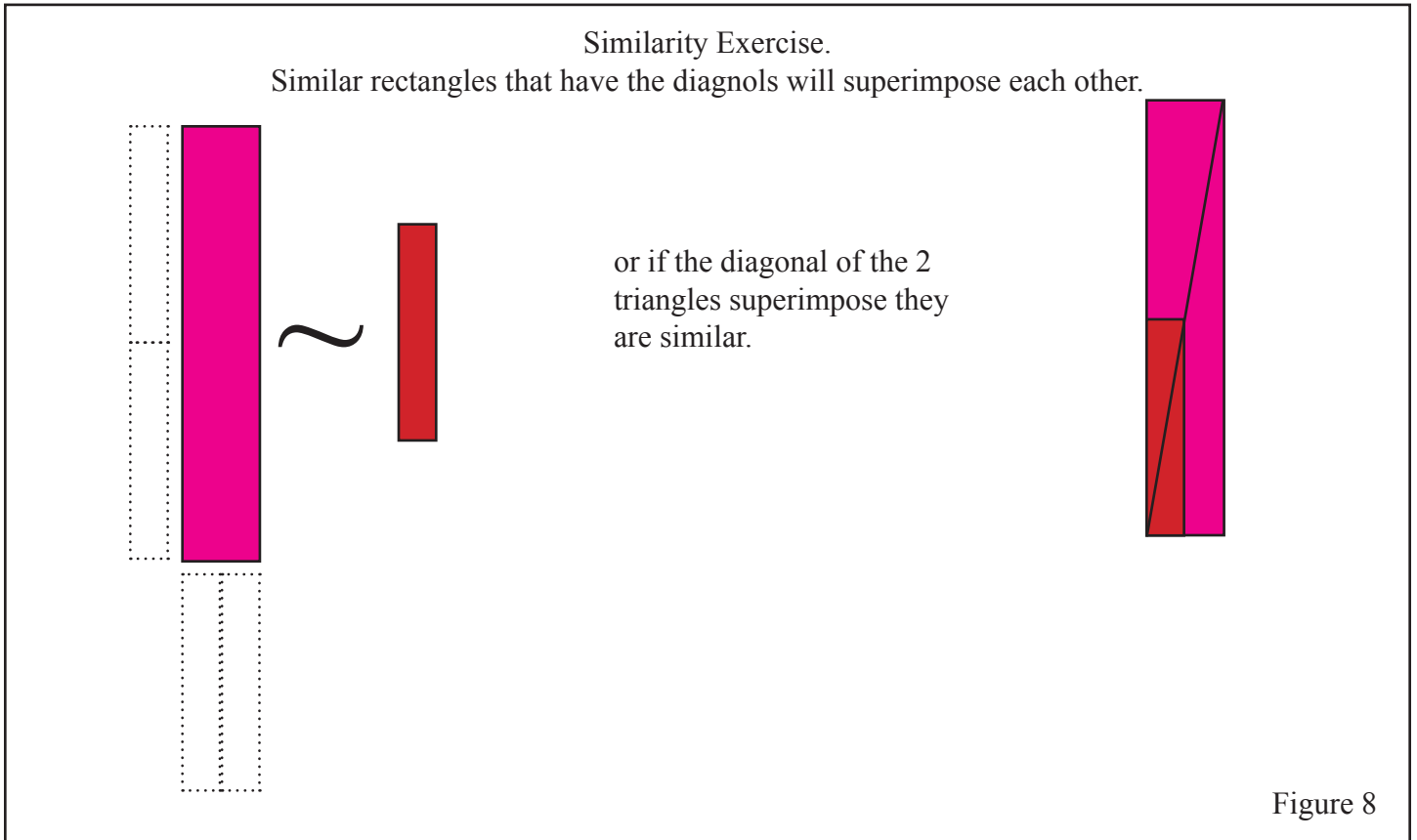


Figure 7



Equivalence. If we know that the squares below are equal, we also know that  $3/4$  of both squares would be equivalent. Can be cut and rearranged to make the same space.



Figure 10