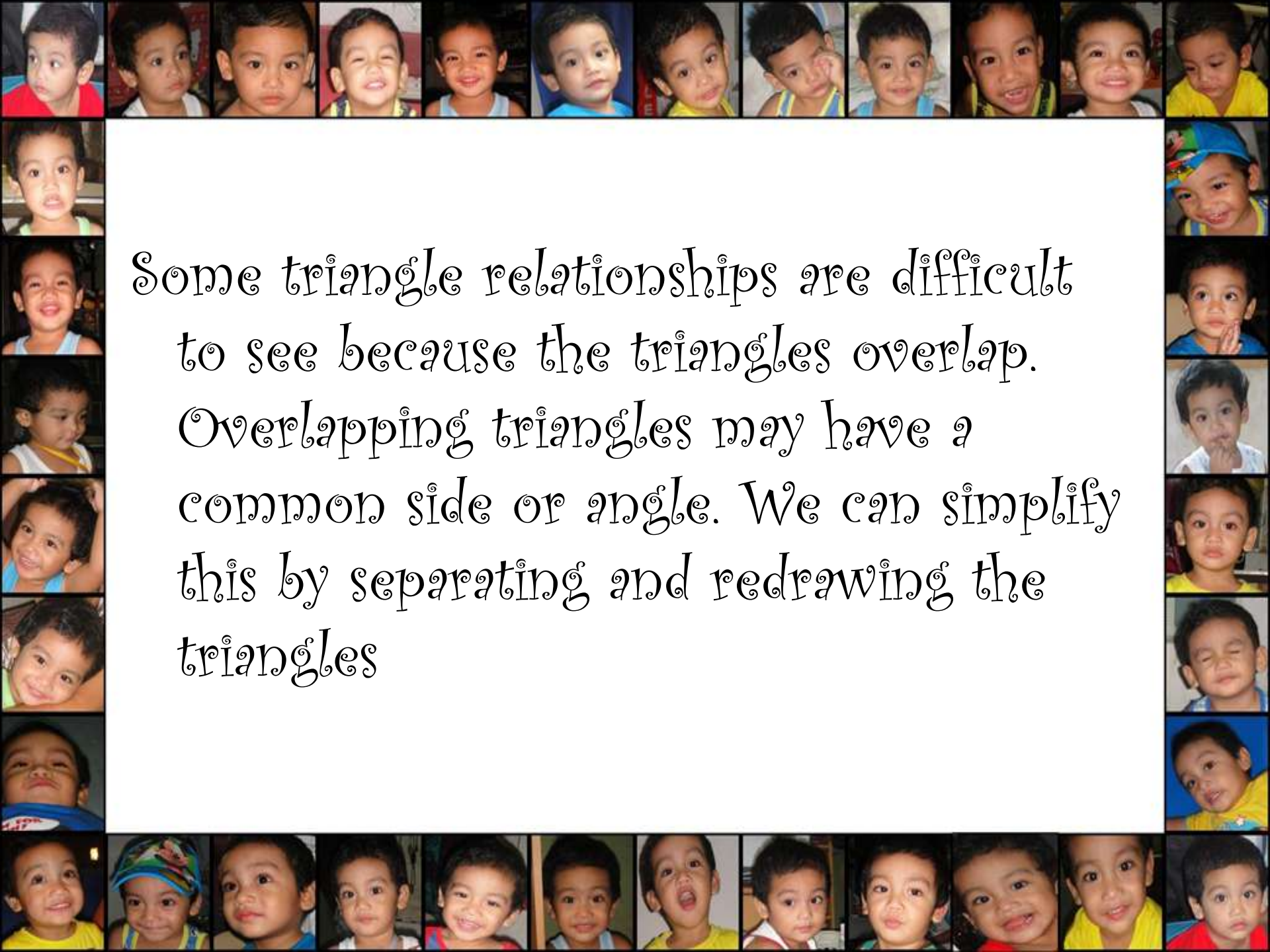


Using Corresponding Parts of Congruent Triangles

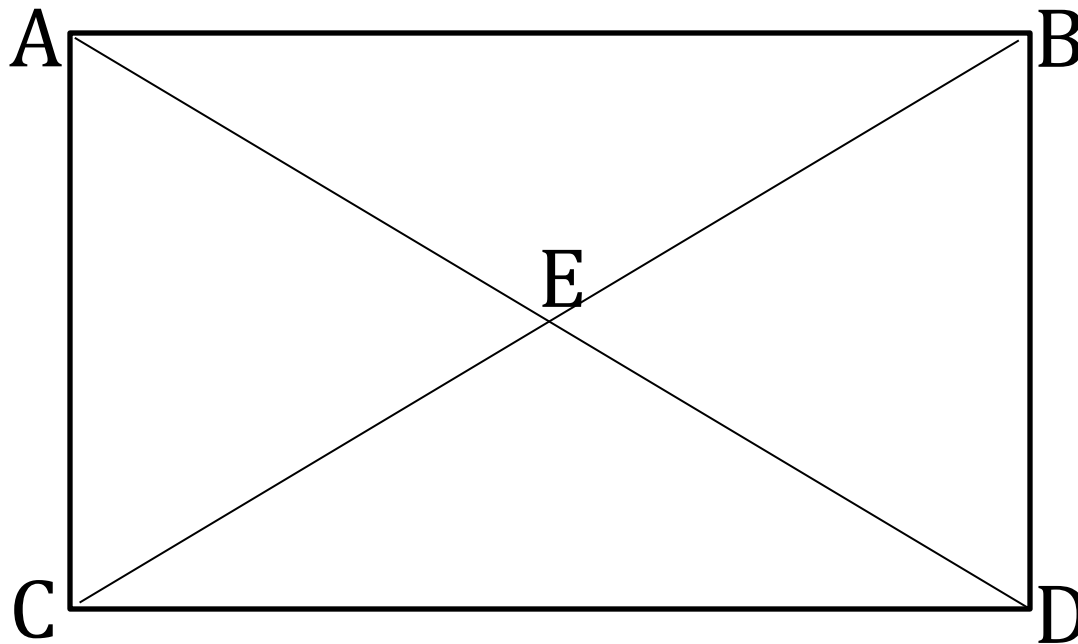


Some triangle relationships are difficult to see because the triangles overlap. Overlapping triangles may have a common side or angle. We can simplify this by separating and redrawing the triangles



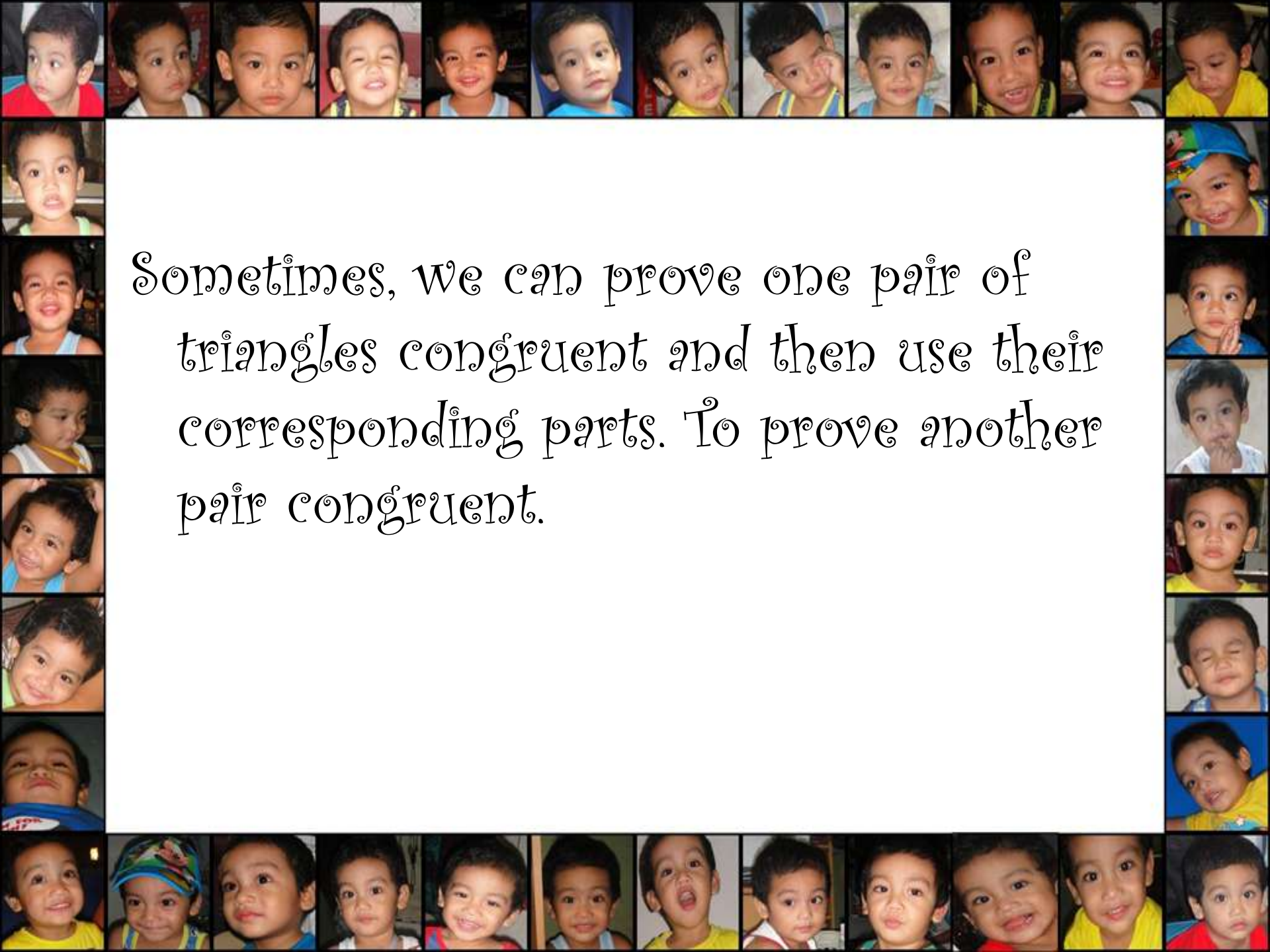
In overlapping triangles, a common side or angle is congruent to itself by the reflexive property of congruence.





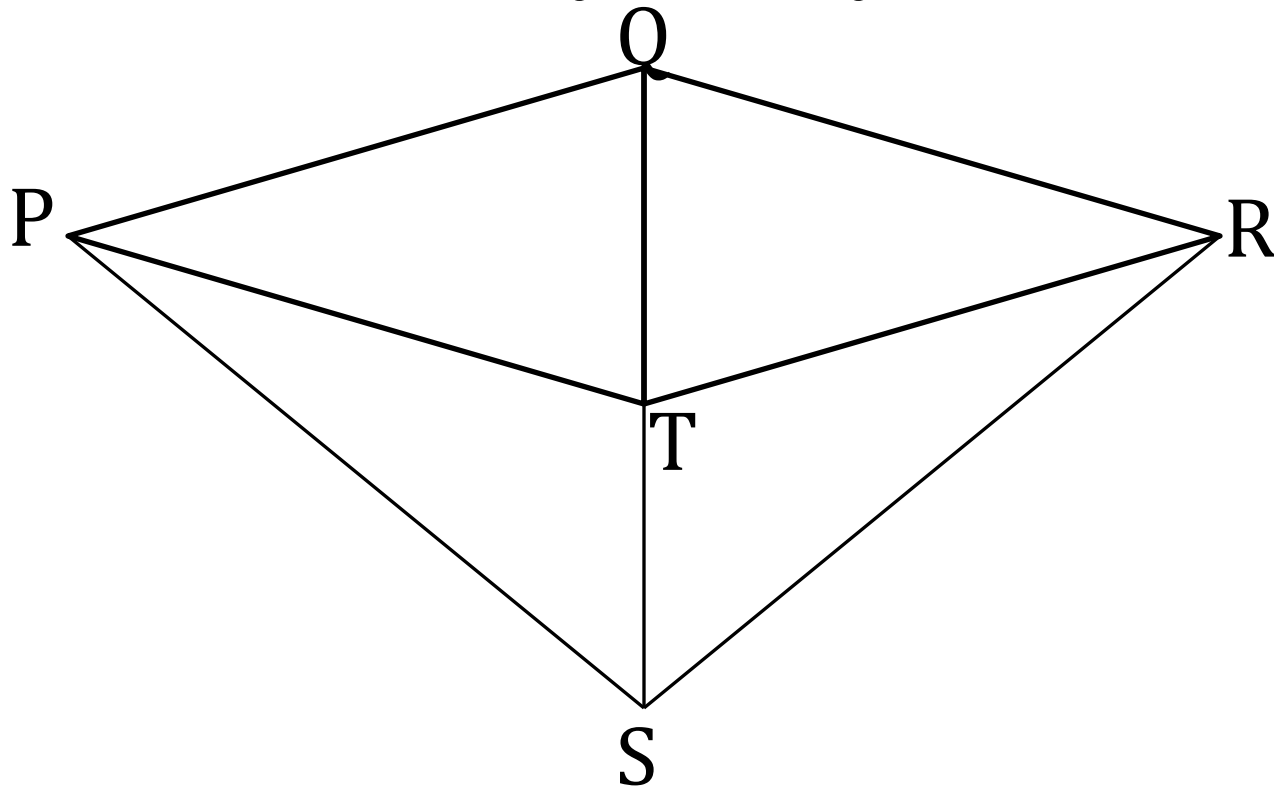
Given: $\triangle ACD \cong \triangle BDC$

Prove: $\overline{CE} \cong \overline{DE}$



Sometimes, we can prove one pair of triangles congruent and then use their corresponding parts. To prove another pair congruent.

Given: $PS \cong \overline{RS}$, $\angle PSQ \cong \angle RSQ$



Prove: $\Delta QPT \cong \Delta QRT$