$\qquad$ - $\qquad$
$\qquad$
4-3 Corresponding Parts of Congruent Triangles
Triangles that have the $\qquad$ and $\qquad$ are


The $\qquad$ that are $\cong$ must be written in the $\qquad$ in a triangle congruence statement.

Angles are $\cong: \angle \mathrm{A} \cong \angle \mathrm{R}, \angle \mathrm{B} \cong \angle \mathrm{S}, \angle \mathrm{C} \cong \angle \mathrm{T}$
Sides are $\cong: \overline{A B} \cong \overline{R S}, \overline{B C} \cong \overline{S T}, \overline{C A} \cong \overline{T R}$
CPCTC: $\qquad$ of $\qquad$ are $\qquad$ .

Identify Congruence Transformations: If two triangles are $\qquad$ , you can $\qquad$ __, or $\qquad$ one of the triangles and they will still be . These are called $\qquad$ because they do not change the $\qquad$ or $\qquad$ of the figure. It is common to use prime symbols to distinguish between an original $\triangle D E F$ and a transformed $\triangle D^{\prime} E F^{\prime}$.


Identify the congruent triangles in each figure and name the corresponding congruent parts.


Corresponding Parts of Congruent Triangles Triangles that have the same size and same shape are congruent triangles.
Two triangles are congruent if and only if all three pairs of corresponding angles are congruent and all three pairs of corresponding sides are congruent.


The angles that are $\cong$ must be written in the order of congruence in a triangle congruence statement.

Angles are $\cong: \angle A \cong \angle R, \angle B \cong \angle S, \angle C \cong \angle T$ Sides are $\cong: \overline{A B} \cong \overline{R S}, \overline{B C} \cong \overline{S T}, \overline{C A} \cong \overline{T R}$ CPCTC: corresponding parts of congruent triangles are congruent.

Identify Congruence Transformations: If two triangles are congruent, you can slide, flip, or turn one of the triangles and they will still be congruent. These are called congruence transformations because they do not change the size or shape of the figure. It is common to use prime symbols to distinguish between an original $\Delta D E F$ and a transformed $\Delta D^{\prime} E^{\prime} F^{\prime}$.


Identify the congruent triangles in each figure and name the corresponding congruent parts.


