

What are the different corresponding parts of a triangle?

a. Corresponding angles

examples: $\angle A \cong \angle J$, $\angle B \cong \angle K$, $\angle C \cong \angle L$

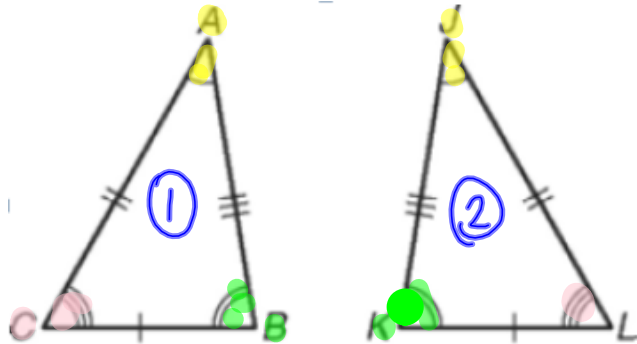
b. Corresponding sides

examples: $\overline{AB} \cong \overline{JK}$, $\overline{BC} \cong \overline{KL}$, $\overline{AC} \cong \overline{JL}$

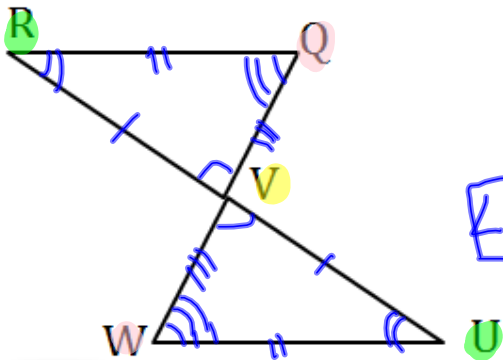
Congruence Statement: $\triangle ABC \cong \triangle JKL$; $\triangle BCA \cong \triangle LKJ$

ORDER MATTERS

if all 6 parts \cong
then \triangle s are \cong



1. $\triangle URQ \cong \triangle VWQ \rightarrow$ corresponding parts \cong



$\overline{RV} \cong \overline{VW}$
 $\angle RVQ \cong \angle UVW$

$$\triangle BCD \cong \triangle BIH$$

$$\angle D \cong \angle H$$

$$\overline{BD} \cong \overline{BH}$$

Level 1: Suppose $\triangle ABC \cong \triangle DEF$. Find each value below.

$$\overline{EF} \cong \overline{BC}$$

$$2x + y = 90.6$$

$$\angle D \cong \angle A$$

$$2y - 5 = 65$$

