Name:_____Date:_____Per:____

Warm-up

If $\triangle SAY \cong \triangle NOW$, which angle is congruent to $\angle S$?

Ⓐ $\angle Y$ Ⓒ $\angle O$
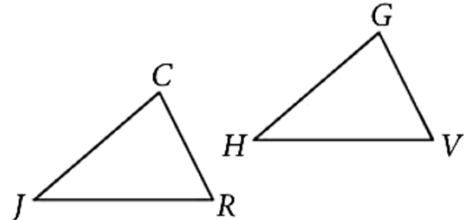
Ⓑ $\angle W$ Ⓓ $\angle N$

What other parts are congruent?

In the diagram, $\triangle JRC \cong \triangle HVG$.

1. List the congruent corresponding angles.

2. List the congruent corresponding sides.

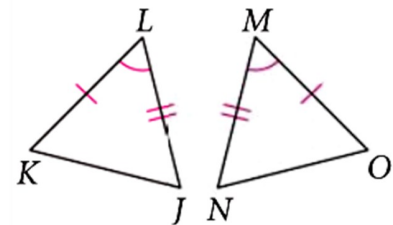**You are given that $\triangle TIC \cong \triangle LOK$.**

3. List the congruent corresponding angles.

4. List the congruent corresponding sides.

Notes:

5. **Developing Proof** State why the two triangles are congruent. Give the congruence statement. Then list all the other parts of the triangles that are congruent by CPCTC.
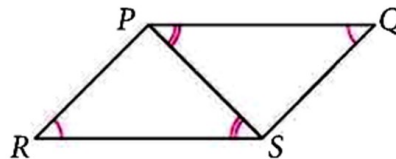

Using CPCTC

6.

Writing a Proof with CPCTC

Given: $\angle Q \cong \angle R$,
        $\angle QPS \cong \angle RSP$
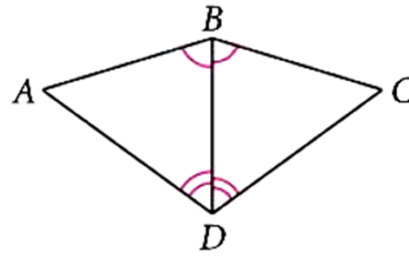
Prove: $\overline{SQ} \cong \overline{PR}$

  Statements   Reasons

7.

Given: $\angle ABD \cong \angle CBD$,
$\angle BDA \cong \angle BDC$

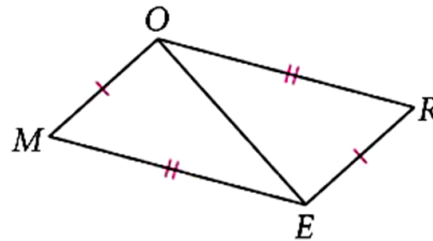**Prove:** $\overline{AB} \cong \overline{CB}$

Statements	Reasons

8.

Given: $\overline{OM} \cong \overline{ER}$,
$\overline{ME} \cong \overline{RO}$

Prove: $\angle M \cong \angle R$

Statements	Reasons

9. If $\triangle ABC \cong \triangle XYZ$, by which theorem or postulate is $\overline{CB} \cong \overline{ZY}$?

- (A) CPCTC
- (B) SAS
- (C) Parallel Postulate
- (D) Isosceles Triangle Theorem