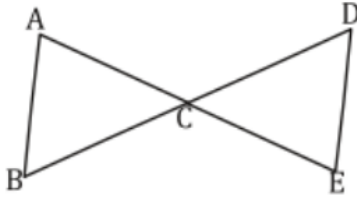




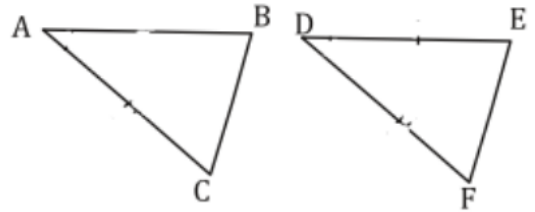
Let's go over the proofs from Tuesday!

1. Given:  $\overline{AE}$  Bisects  $\overline{BD}$ ,  $\angle B \cong \angle D$



Prove:  $\triangle ABC \cong \triangle EDC$

2. Given:  $\overline{AB} \cong \overline{DE}$ ,  $\overline{AC} \cong \overline{DF}$ , and  $\angle A \cong \angle D$

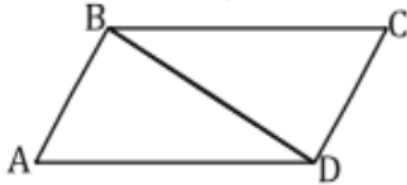


Prove:  $\triangle ABC \cong \triangle DEF$

Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.

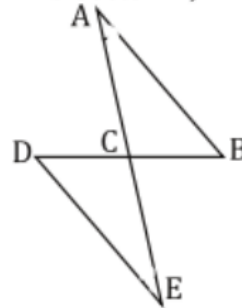
Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.

3. Given:  $\overline{AB} \cong \overline{CD}$ ,  $\overline{AD} \cong \overline{CB}$



Prove:  $\triangle ABD \cong \triangle CDB$

4. Given:  $\overline{AE}$  bisects  $\overline{BD}$ ,  $\angle A \cong \angle E$

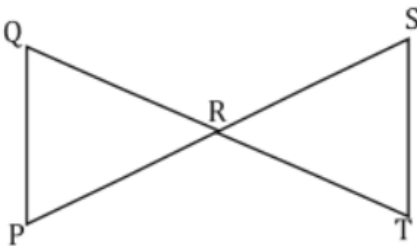


Prove:  $\triangle ABC \cong \triangle EDC$

Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.

Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.

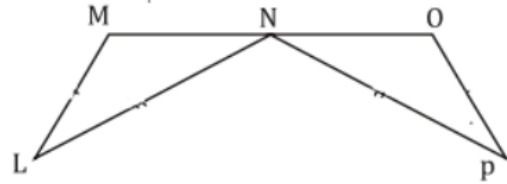
5. Given:  $\overline{QT}$  bisects  $\overline{SP}$ ,  $\overline{SP}$  bisects  $\overline{QT}$



Prove:  $\triangle QRP \cong \triangle SRT$

Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

6. Given: N is the midpoint of  $\overline{MO}$ ,  $\overline{LM} \cong \overline{OP}$ , and  $\overline{LN} \cong \overline{PN}$



Prove:  $\triangle LMN \cong \triangle PON$

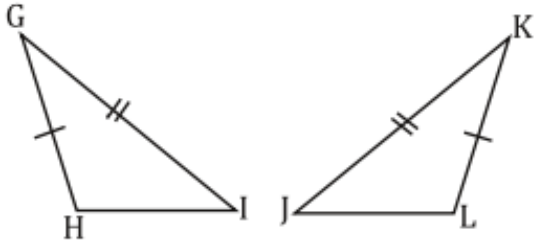
Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.

It is now time to discuss the ever-important CPCTC!

**C**  
**P**  
**C**  
**T**  
**C**

It is **crucial** to remember that \_\_\_\_\_ you use CPCTC you must \_\_\_\_\_ prove that the triangles in the question are \_\_\_\_\_. Let's practice...

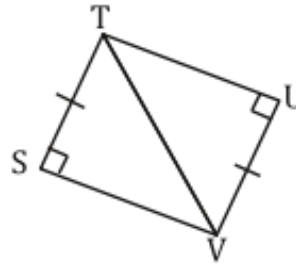
Given:  $\overline{GH} \cong \overline{KL}$ ,  $\angle G \cong \angle K$ , and  $\overline{GI} \cong \overline{KJ}$



Prove:  $\overline{HI} \cong \overline{LJ}$

Statements	Reasons
1. $\overline{GH} \cong \overline{KL}$	1. Given
2.	2. Given
3. $\overline{GI} \cong \overline{KJ}$	3.
4.	4. SAS
5. $\overline{HI} \cong \overline{LJ}$	5.

Given:  $\overline{ST} \cong \overline{VU}$

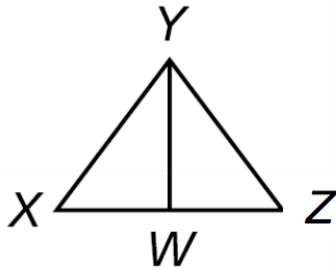


Prove:  $\angle SVT \cong \angle UTV$

Statements	Reasons
1.	1. Given
2.	2. Reflexive Property
3.	3. HL
4. $\angle SVT \cong \angle UTV$	4.

**Given:**  $\overline{YW}$  bisects  $\overline{XZ}$ ,  $\overline{XY} \cong \overline{YZ}$ .

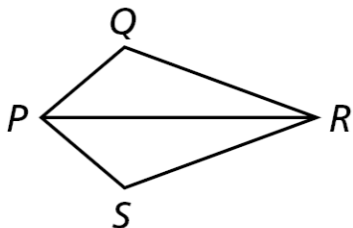
**Prove:**  $\angle XYW \cong \angle ZYW$



Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

**Given:**  $\overline{PR}$  bisects  $\angle QPS$  and  $\angle QRS$ .

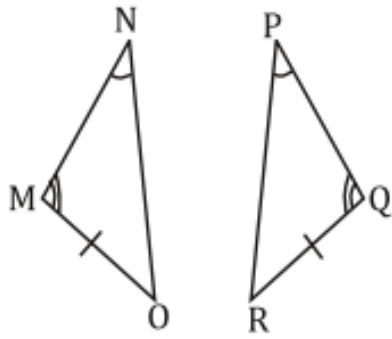
**Prove:**  $\overline{PQ} \cong \overline{PS}$



Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

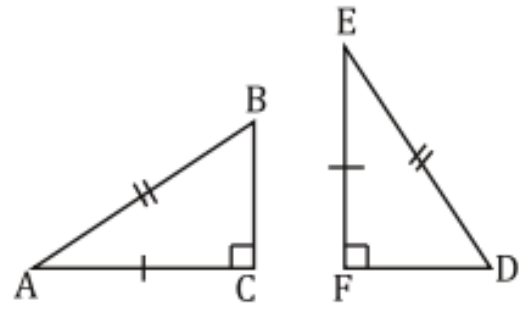
Write a 2-column proof to prove each of the following:

1. Given:  $\angle N \cong \angle P$ ,  $\angle M \cong \angle Q$ , and  $\overline{MO} \cong \overline{QR}$



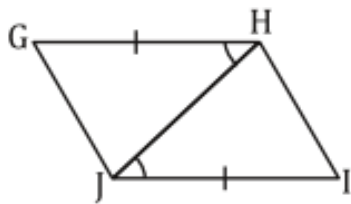
Prove:  $\angle O \cong \angle R$

2. Given:  $\overline{AC} \cong \overline{EF}$ , and  $\overline{AB} \cong \overline{ED}$



Prove:  $\overline{BC} \cong \overline{FD}$

3. Given:  $\overline{GH} \cong \overline{JI}$ ,  $\angle GHJ \cong \angle IJH$



Prove:  $\overline{GJ} \cong \overline{HI}$