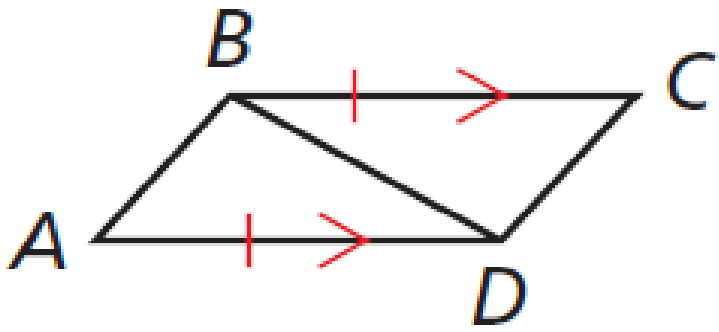
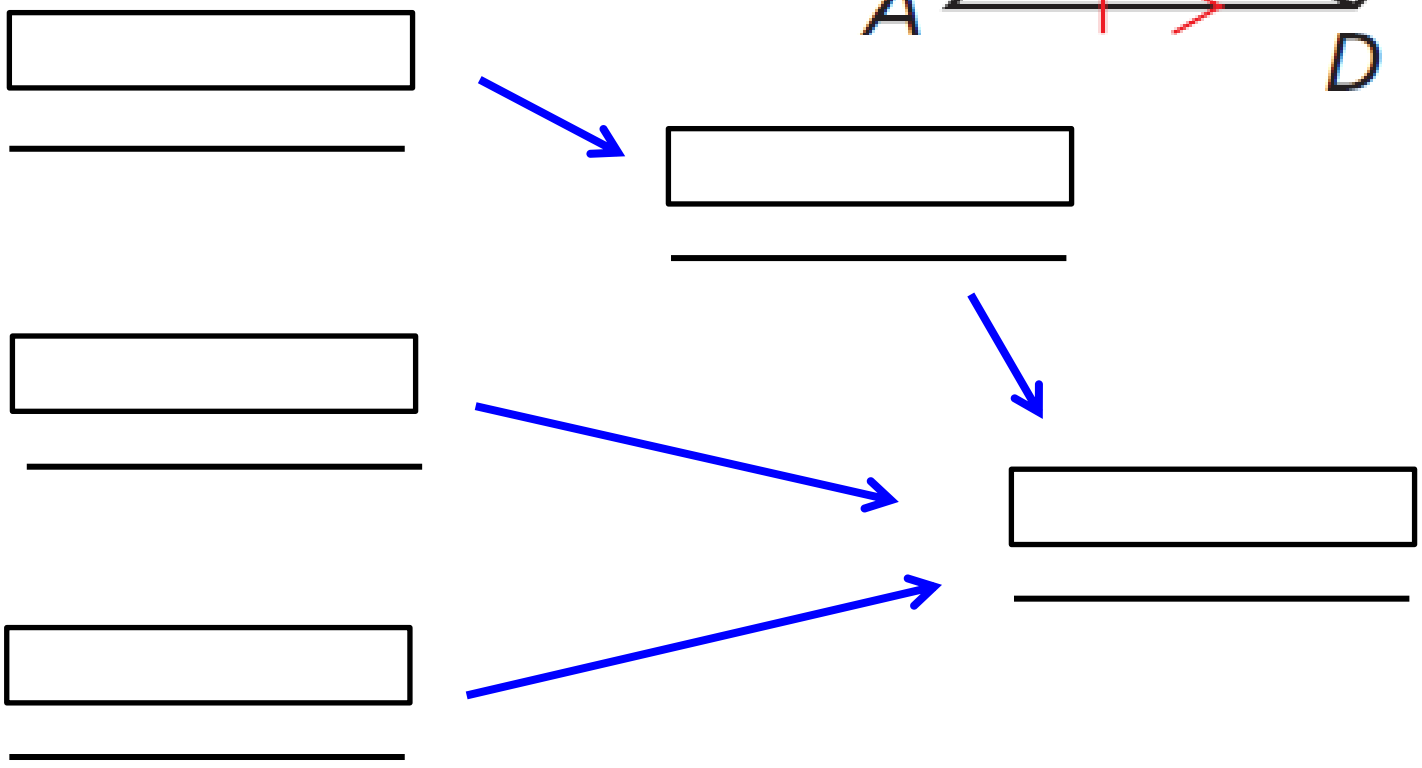
Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

1.

Given: $\overline{BC} \parallel \overline{AD}$, $\overline{BC} \cong \overline{AD}$

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



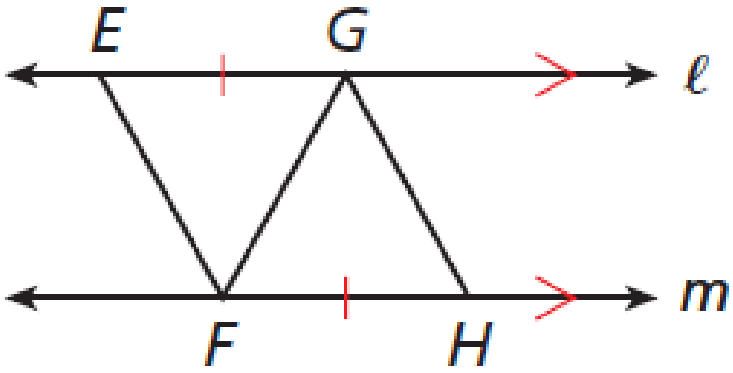


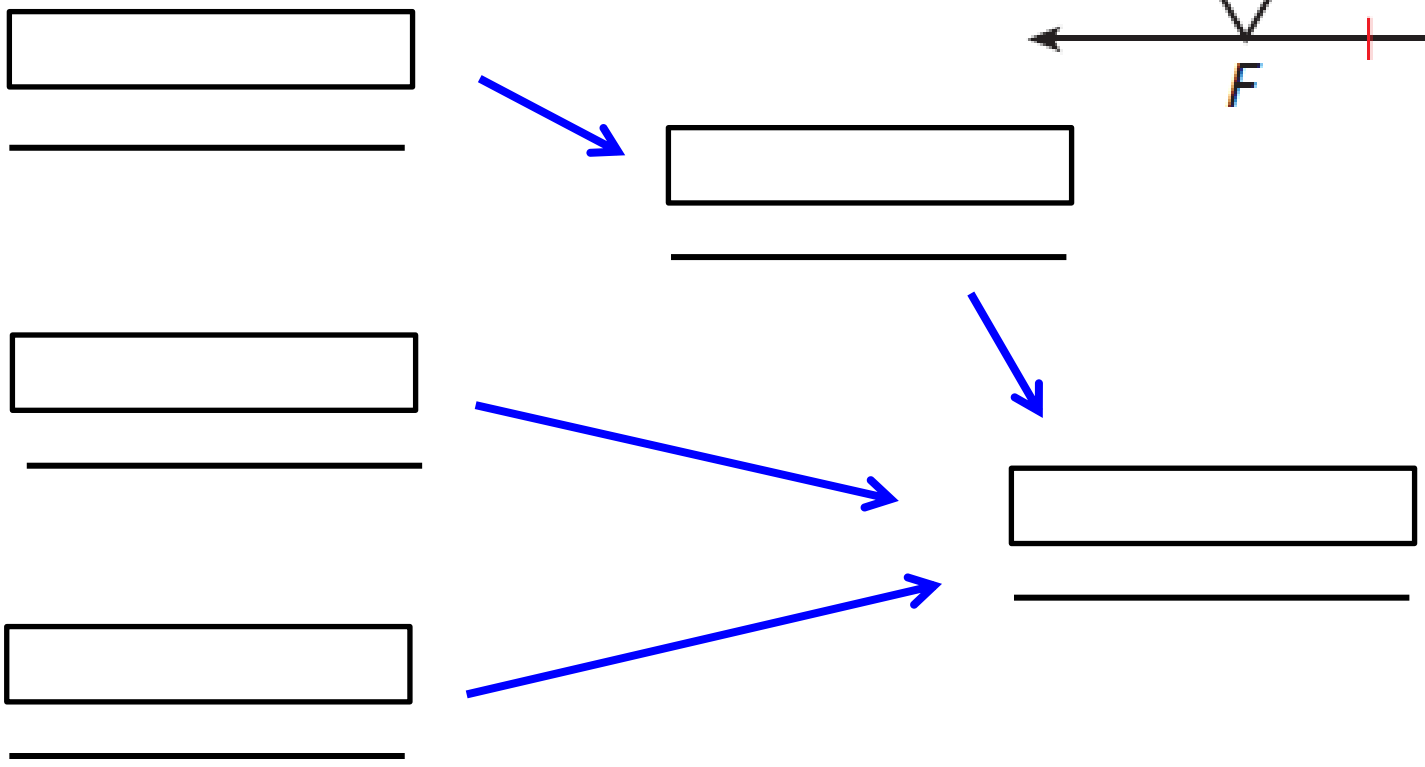
Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

2.

Given: $\ell \parallel m$, $\overline{EG} \cong \overline{HF}$

Prove: $\triangle EGF \cong \triangle HFG$

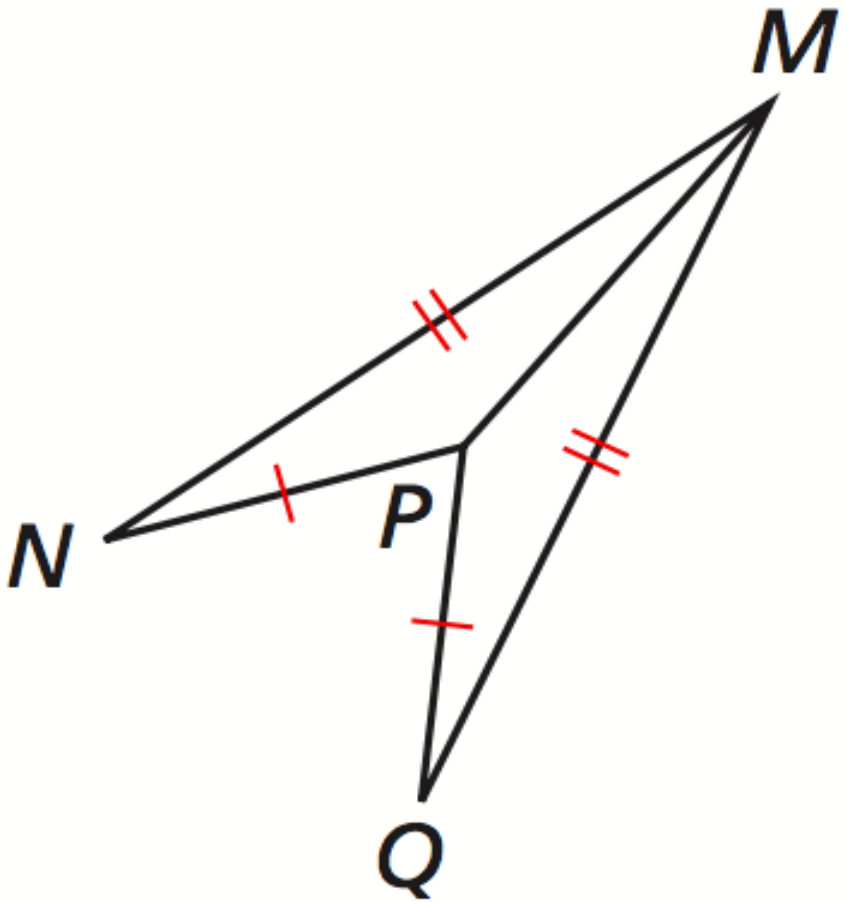




Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

3.

Prove ΔNMP ≅ ΔQMP

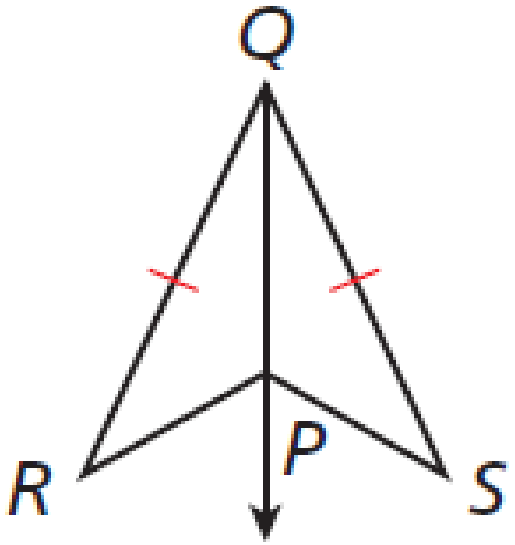


Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

4.

Given: $\overrightarrow{QP}$ bisects $\angle RQS$. $\overline{QR} \cong \overline{QS}$

Prove: $\triangle RQP \cong \triangle SQP$

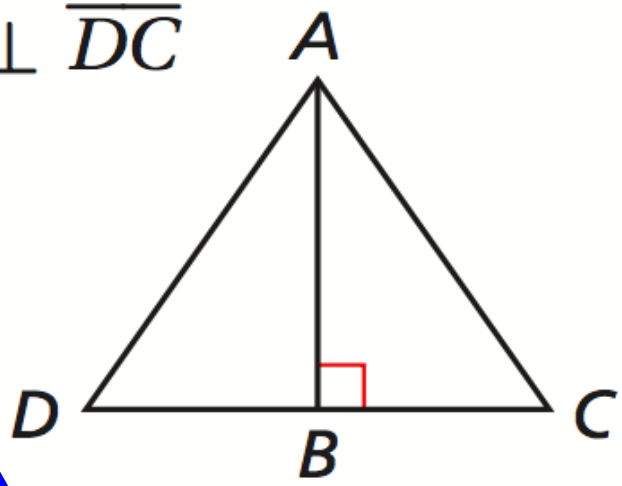


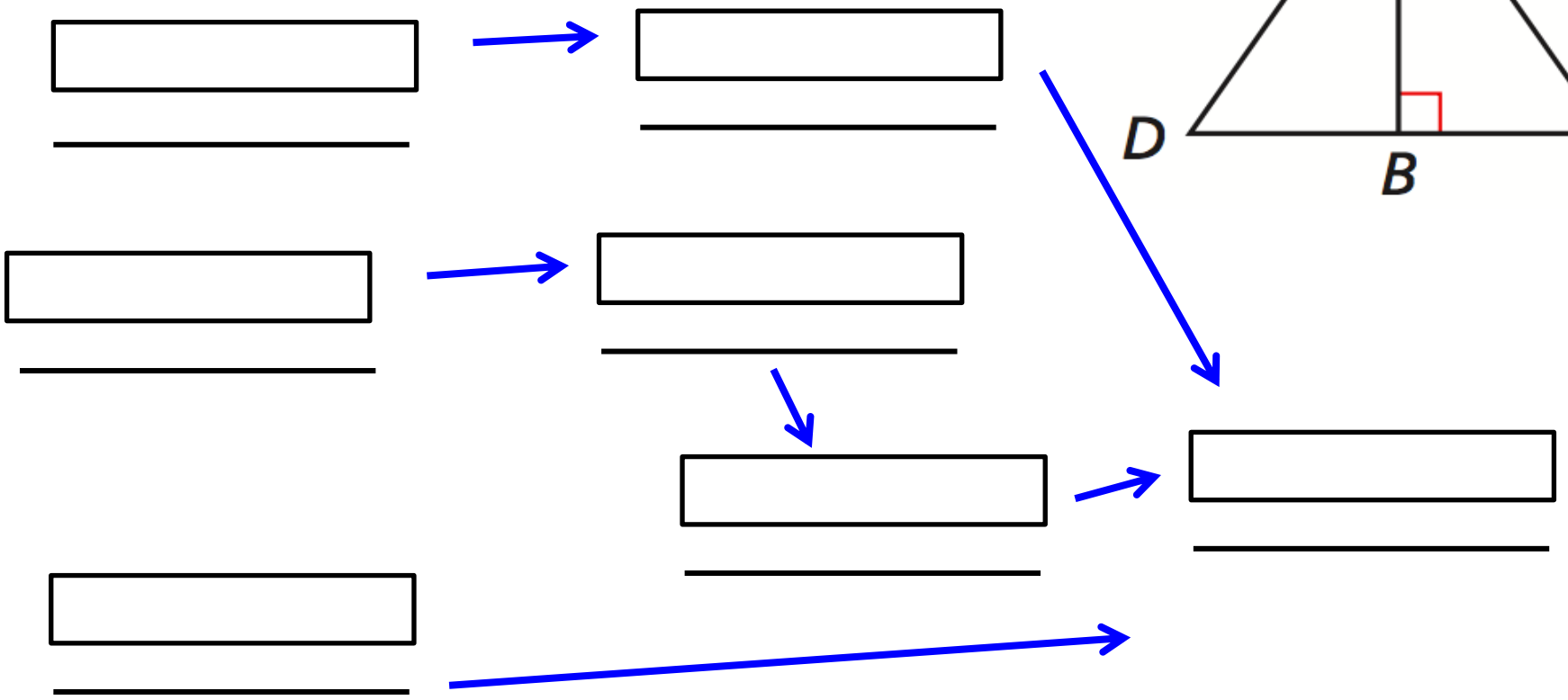
Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

5.

Given: B is the midpoint of $\overline{DC}$. $\overline{AB} \perp \overline{DC}$

Prove: $\triangle ABD \cong \triangle ABC$



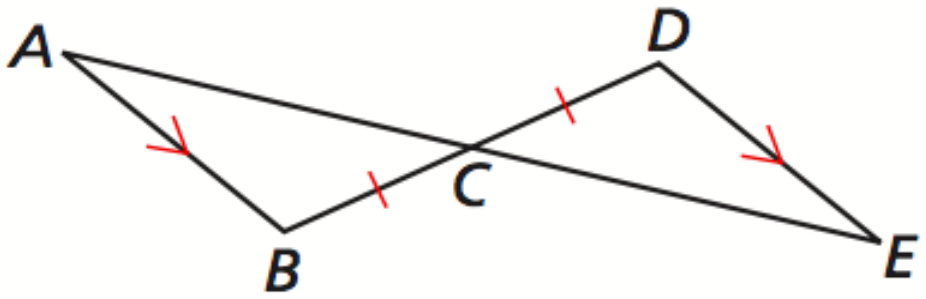


Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

6.

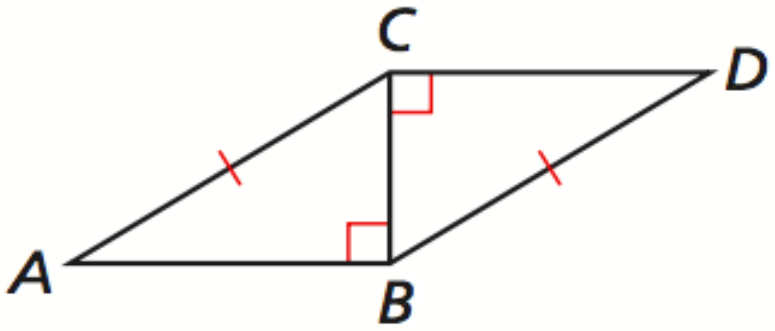
Given: $\overline{AB} \parallel \overline{ED}$, $\overline{BC} \cong \overline{DC}$

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



Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

7. Prove ∠A ≅ ∠D

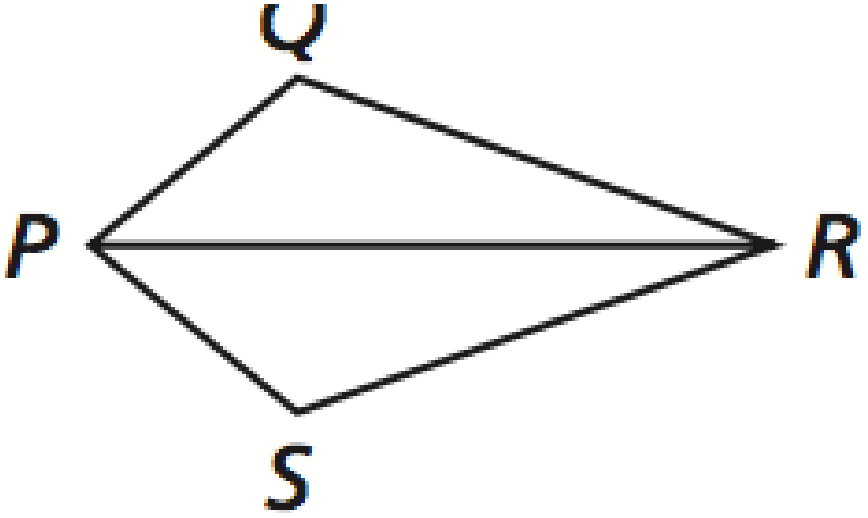


Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

8.

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

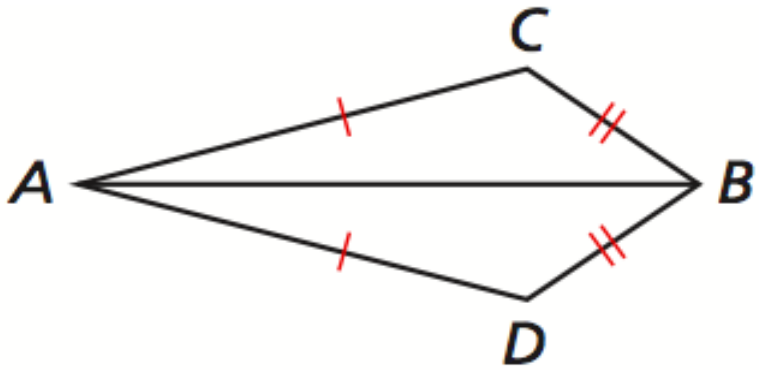
Prove: $\overline{PQ} \cong \overline{PS}$



Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

9.

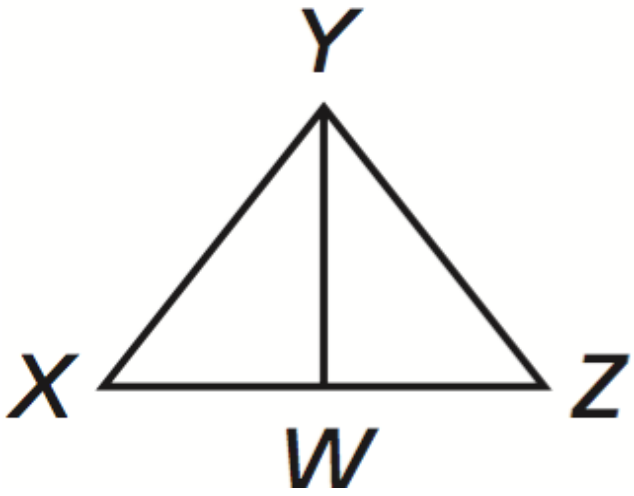
Given: $\overline{AC} \cong \overline{AD}$, $\overline{CB} \cong \overline{DB}$
Prove: $\overline{AB}$ bisects $\angle CAD$.

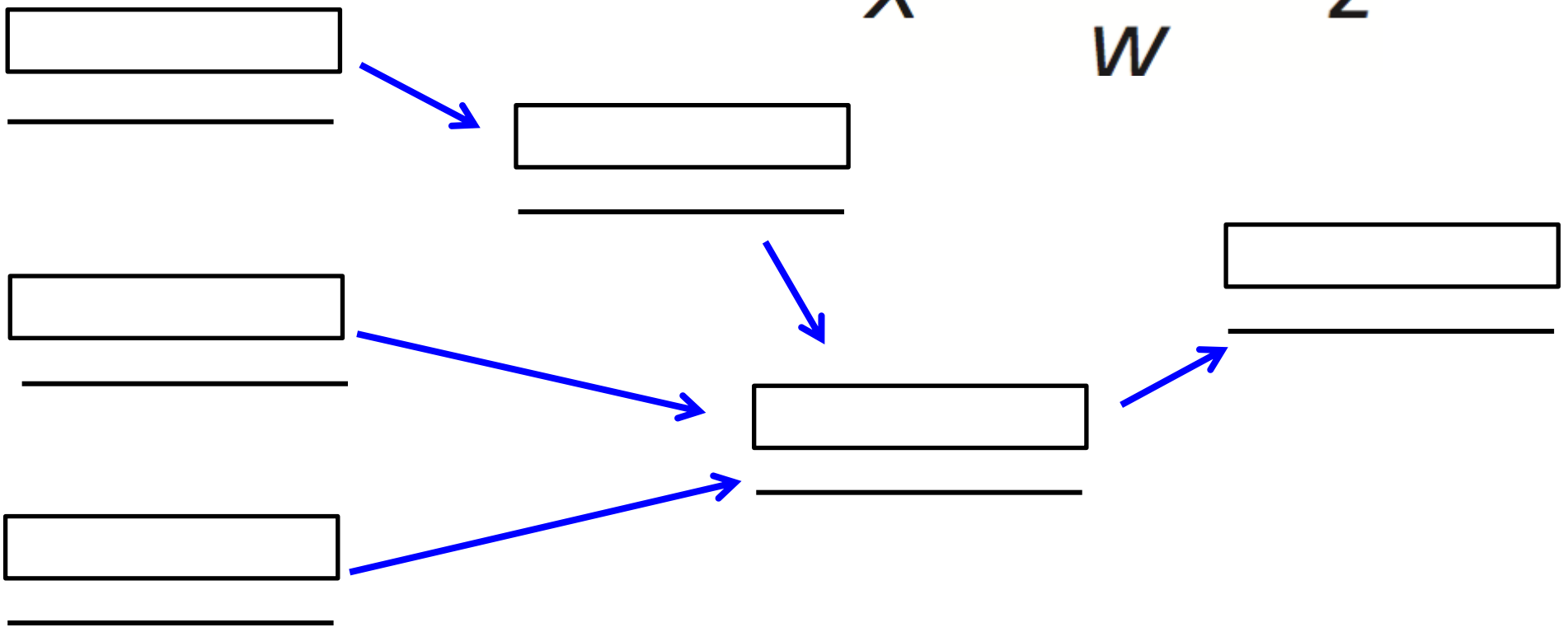


Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

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

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

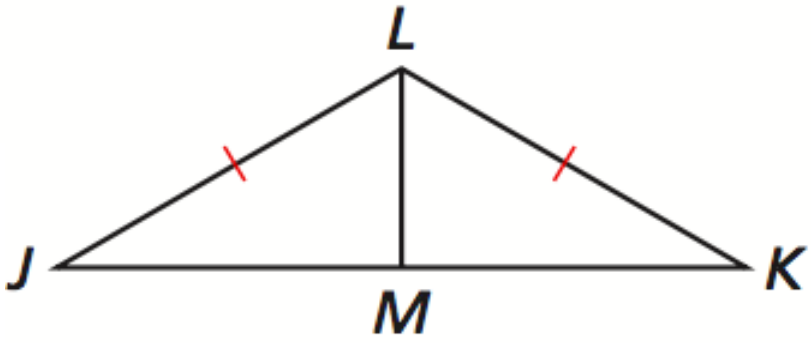




Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

11.

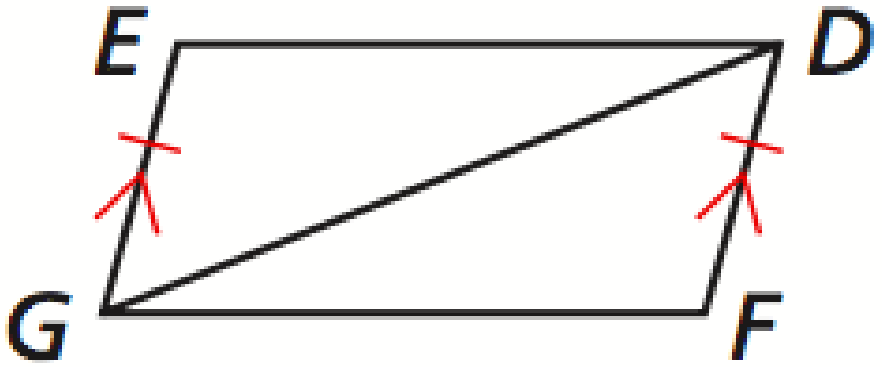
Given: $\overline{LM}$ bisects $\angle JLK$. $\overline{JL} \cong \overline{KL}$
Prove: M is the midpoint of $\overline{JK}$.

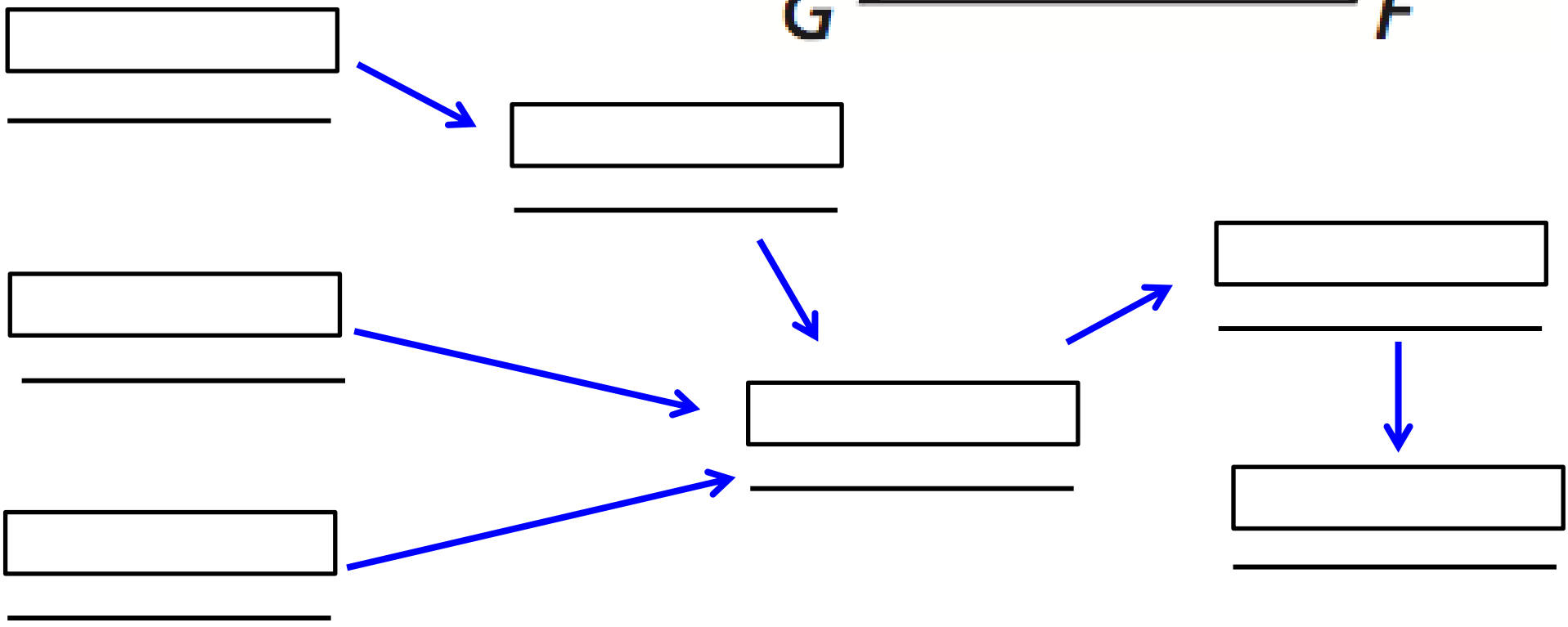


Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

12.

Given: $\overline{EG} \parallel \overline{DF}$, $\overline{EG} \cong \overline{DF}$
Prove: $\overline{ED} \parallel \overline{GF}$





Objective: Create flowchart proofs to show pairs of sides or angles are ≅ by proving the Δ's are ≅ then applying CPCTC.

13.

Given: M is the midpoint of $\overline{PQ}$ and $\overline{RS}$.

Prove: $\overline{QR} \cong \overline{PS}$