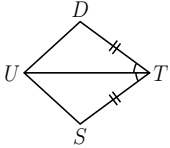
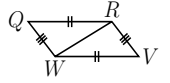
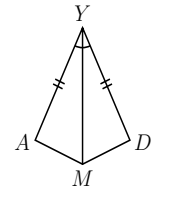
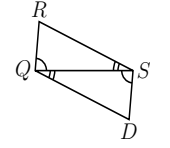
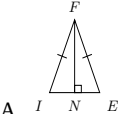
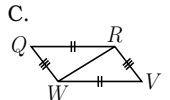
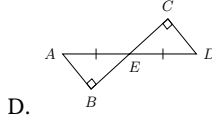
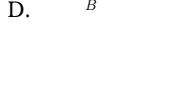


### Quiz 3.6: Proving the Congruence of Triangles

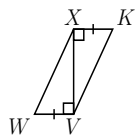
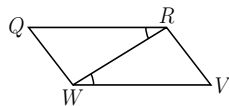
**Multiple Choice:** Choose the letter that corresponds to the correct answer. Write the answer in your answer sheet.

- Which theorem states that if the legs of one right triangle are congruent to the legs of another right triangle, then the triangles are congruent?
  - HA Congruence Theorem
  - HL Congruence Theorem
  - LA Congruence Theorem
  - LL Congruence Theorem
- "If two angles and a non-included side of one triangle are congruent to the corresponding two angles and a non-included side of another triangle, then the triangles are congruent." This is stated in:
  - AAS Congruence Theorem
  - LL Congruence Theorem
  - HL Congruence Theorem
  - LA Congruence Theorem
- Which of the following pairs of triangles are congruent and can be proved by ASA Postulate?
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- Which of the following pairs of triangles are congruent and can be proved by HL Theorem?
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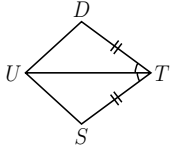
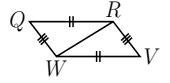
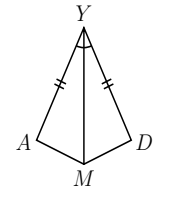
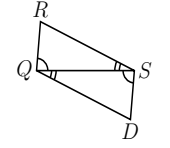
- In the figure at the right,  $\angle QRW \cong \angle VWR$ . What additional data is needed to prove that  $\triangle QRW \cong \triangle VWR$  by SAS Postulate?
  - $\overline{QW} \cong \overline{VR}$
  - $\overline{RQ} \cong \overline{WV}$
  - $\angle Q \cong \angle V$
  - $\angle QWR \cong \angle VRW$

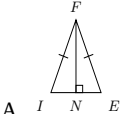
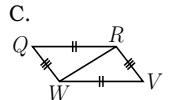
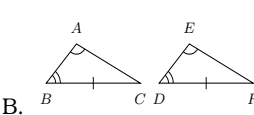
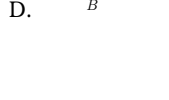
- In the figure at the right,  $\overline{WV} \cong \overline{KX}$ . What additional data is needed to prove that  $\triangle XVW \cong \triangle V XK$  by SSS Congruence?
  - $\overline{XV} \cong \overline{XV}$
  - $\overline{WX} \cong \overline{KV}$
  - $\angle W \cong \angle K$
  - $\angle XVW \cong \angle V XK$



### Quiz 3.6: Proving the Congruence of Triangles

**Multiple Choice:** Choose the letter that corresponds to the correct answer. Write the answer in your answer sheet.

- Which theorem states that if the legs of one right triangle are congruent to the legs of another right triangle, then the triangles are congruent?
  - HA Congruence Theorem
  - HL Congruence Theorem
  - LA Congruence Theorem
  - LL Congruence Theorem
- "If two angles and a non-included side of one triangle are congruent to the corresponding two angles and a non-included side of another triangle, then the triangles are congruent." This is stated in:
  - AAS Congruence Theorem
  - LL Congruence Theorem
  - HL Congruence Theorem
  - LA Congruence Theorem
- Which of the following pairs of triangles are congruent and can be proved by ASA Postulate?
  - 
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- Which of the following pairs of triangles are congruent and can be proved by HL Theorem?
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- In the figure at the right,  $\angle QRW \cong \angle VWR$ . What additional data is needed to prove that  $\triangle QRW \cong \triangle VWR$  by SAS Postulate?
  - $\overline{QW} \cong \overline{VR}$
  - $\overline{RQ} \cong \overline{WV}$
  - $\angle Q \cong \angle V$
  - $\angle QWR \cong \angle VRW$

- In the figure at the right,  $\overline{WV} \cong \overline{KX}$ . What additional data is needed to prove that  $\triangle XVW \cong \triangle V XK$  by SSS Congruence?
  - $\overline{XV} \cong \overline{XV}$
  - $\overline{WX} \cong \overline{KV}$
  - $\angle W \cong \angle K$
  - $\angle XVW \cong \angle V XK$

