

Congruent Triangles Scavenger Hunt

Cut out each of the question slides and place them around the room, stick them on the walls if you wish.

Print out and distribute the answer sheet, one per pupil, or team, and set them off to find the answers.

The correct sequence is:

$$\overline{AD} \cong \overline{CB}$$

ASA

SAS

$$\triangle ABQ \cong \triangle BAP$$

$$\triangle ACB \cong \triangle ECD$$

SSS

AAS

$$\overline{XW} \cong \overline{XY}$$

$$\overline{AB}$$

$$\overline{QY}$$

$$\overline{XV} \cong \overline{XY}$$

Vertical
Angles

A worksheet template for congruent triangles. It features a grid of nine empty circles arranged in three rows and three columns. Arrows indicate a sequence: from the bottom-left circle to the middle-left circle, then to the top-left circle, then to the top-middle circle, then to the top-right circle, then to the middle-right circle, then to the bottom-right circle, then to the bottom-middle circle, then to the middle-left circle, and finally to the top-left circle. The text "Congruent Triangles" is written vertically in the center. Below it, the text "Answer Sheet" is written vertically. To the right of "Answer Sheet", the text "Name:" is written vertically.

Congruent Triangles

Answer Sheet

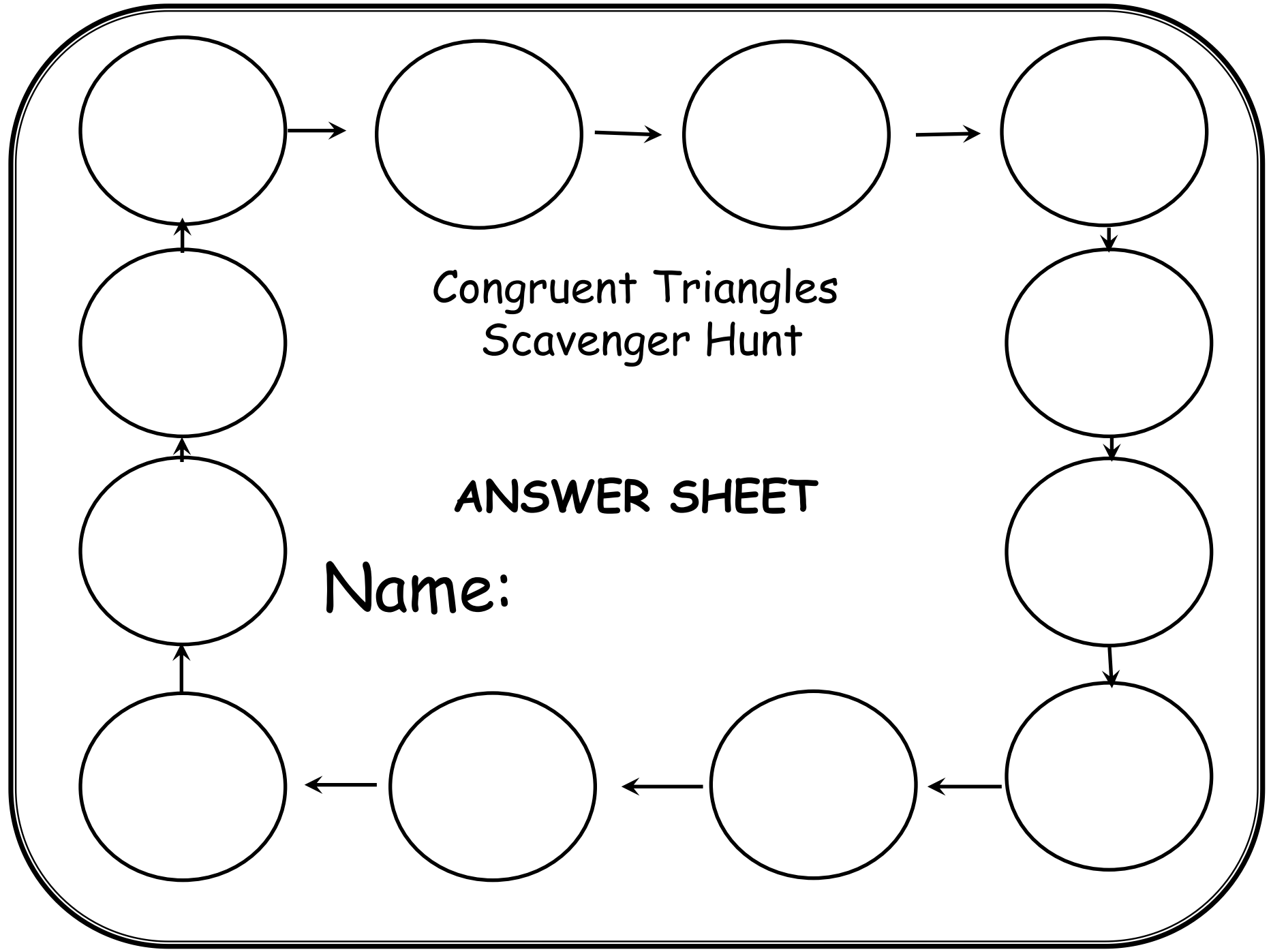
Name:

A worksheet template for congruent triangles. It features a grid of nine empty circles arranged in three rows and three columns. Arrows indicate a sequence: from the bottom-left circle to the middle-left circle, then to the top-left circle, then to the top-middle circle, then to the top-right circle, then to the middle-right circle, then to the bottom-right circle, then to the bottom-middle circle, then to the middle-left circle, and finally to the top-left circle. The text "Congruent Triangles" is written vertically in the center. Below it, the text "Answer Sheet" is written vertically. To the right of "Answer Sheet", the text "Name:" is written vertically.

Congruent Triangles

Answer Sheet

Name:



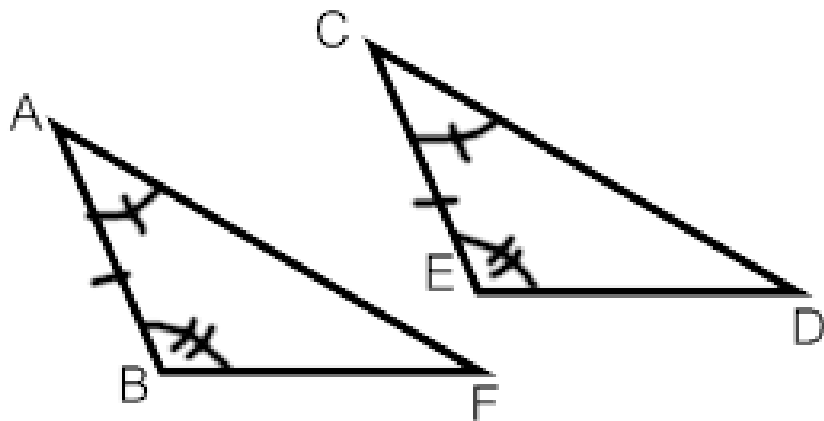
Congruent Triangles
Scavenger Hunt

ANSWER SHEET

Name:

→ $\overline{AD} \cong \overline{CB}$
Previous Answer

Congruent Triangles
Scavenger Hunt



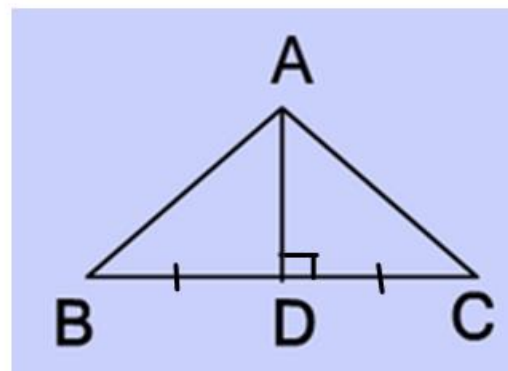
What triangle congruence postulate
would prove $\triangle ABF \cong \triangle CED$?

?

To the next clue →

→ ASA
Previous Answer

Congruent Triangles
Scavenger Hunt



What triangle congruence postulate
would prove $\triangle ABD \cong \triangle ACD$?

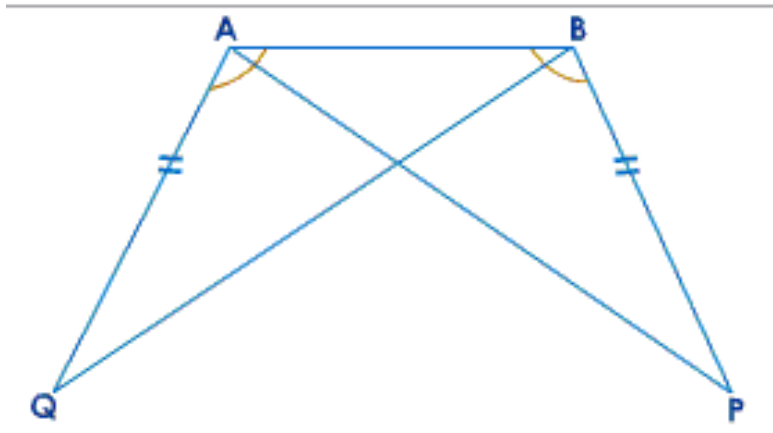
?

→

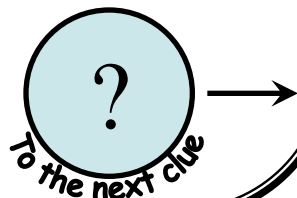
→ **SAS**

Previous Answer

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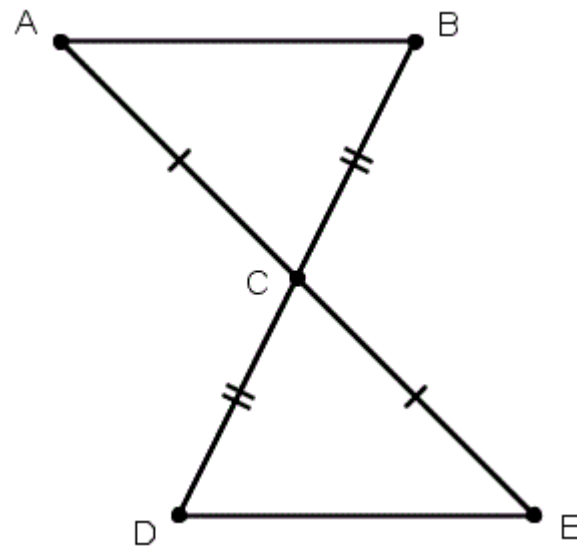
Which two triangles are congruent?



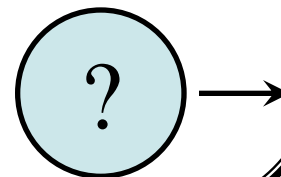
→ $\triangle ABQ \cong \triangle BAP$

Previous Answer

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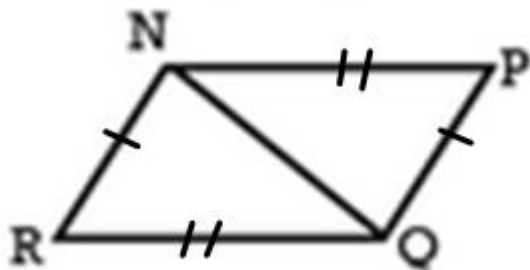


Which two triangles are congruent?



→ $\Delta ACB \cong \Delta ECD$
Previous Answer

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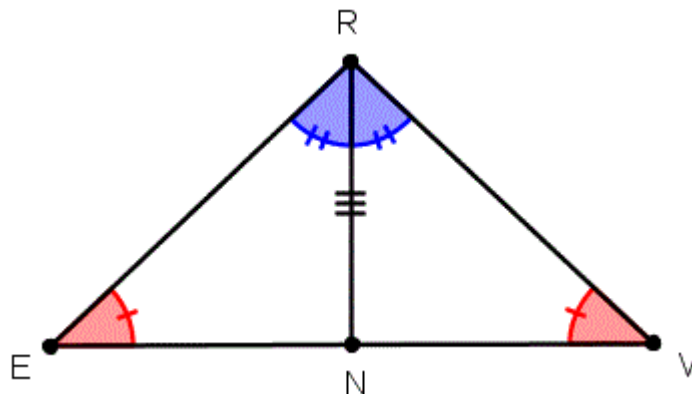
What triangle congruence postulate would prove $\Delta RNQ \cong \Delta PQN$?

?

To the next clue →

→ SSS
Previous Answer

Congruent Triangles
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What triangle congruence postulate would prove $\Delta REN \cong \Delta RVN$?

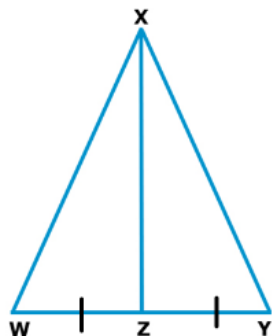
?

→

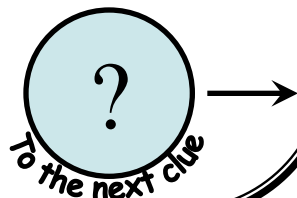
→ **AAS**

Previous Answer

Congruent Triangles
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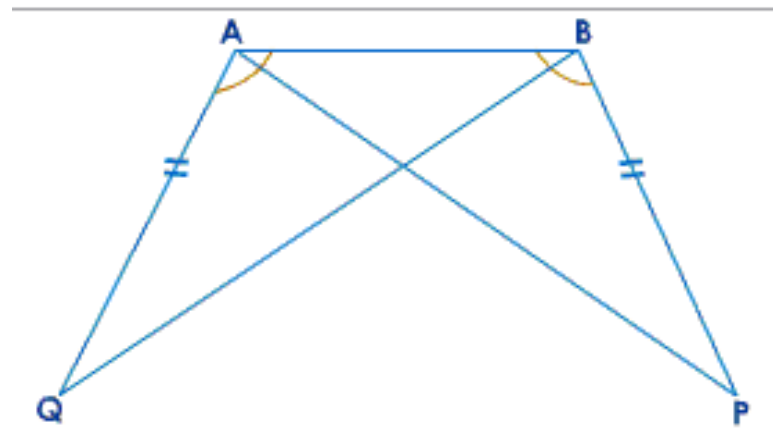
To prove the triangles congruent by
SSS what additional information would
you need to know?



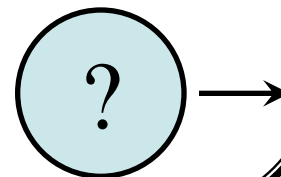
→ $\overline{XW} \cong \overline{XY}$

Previous Answer

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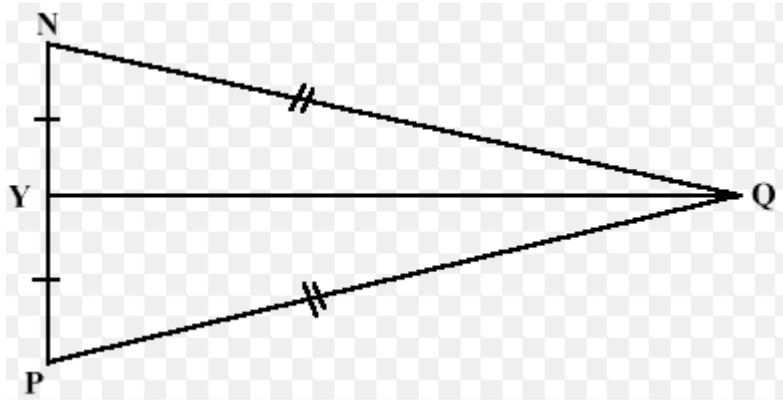
What side do the two triangles share?



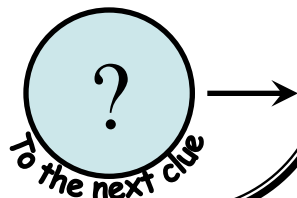
\overline{AB}

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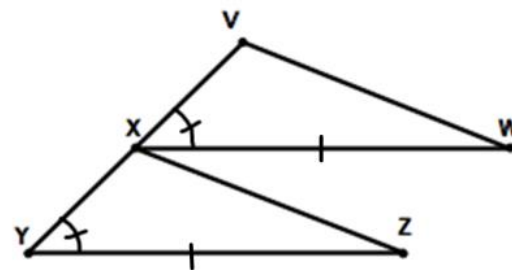
In this diagram, what side is shared
between the two triangles?



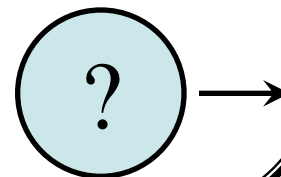
\overline{QY}

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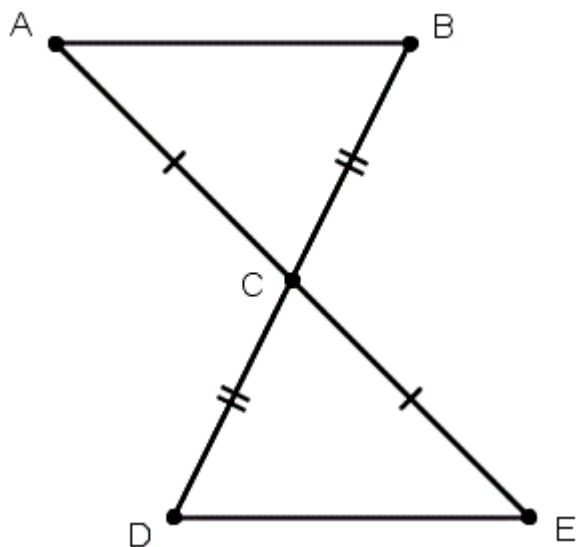


To prove the triangles congruent by
SAS, what other information would
you need to know?



→ $\overline{XV} \cong \overline{XY}$
Previous Answer

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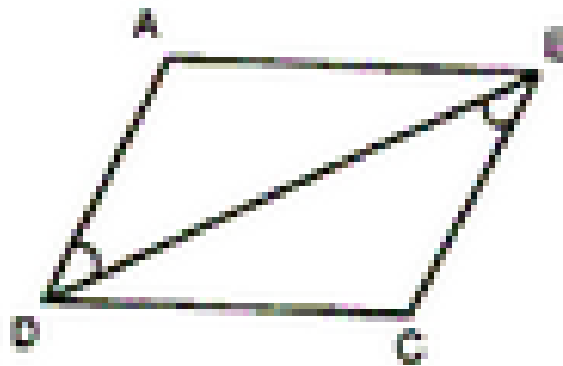
What type of angles are
 $\angle ACB \cong \angle ECD$

?

To the next clue →

→ Vertical
Angles
Previous Answer

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If you needed to prove $\triangle ABD \cong \triangle CDB$
by SAS, what information would
you need to know?

?

→