

Side Side Side Worksheet and Activity

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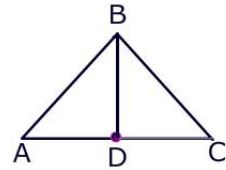
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http://www.mathwarehouse.com/geometry/congruent_triangles/side-side-side-postulate.php

Warm Up

1) What property states that $BD \cong BD$?



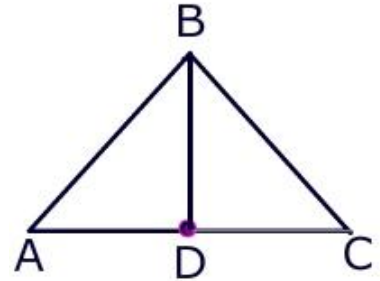
3) Write down at least three criteria that you think must always be true for two triangles that are congruent?

Model Problems Side Side Side Proofs

Proof A

Given: $\overline{AB} \cong \overline{BC}$, \overline{BD} is a median of side \overline{AC}

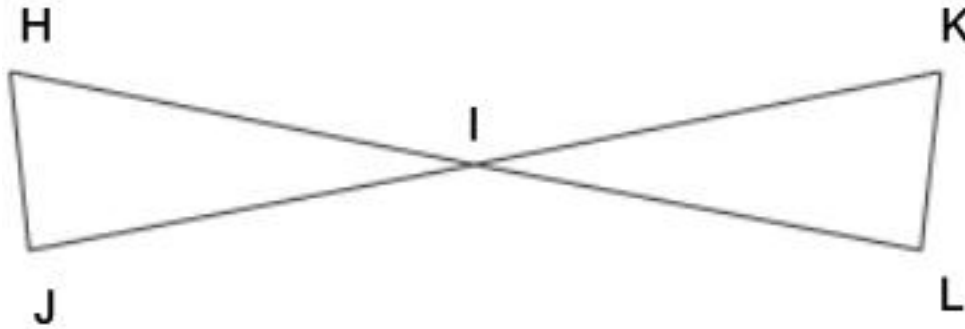
Prove: $\triangle ABD \cong \triangle CBD$



Statement	Reasons

Given: HL bisects JK , $HJ \cong KL$

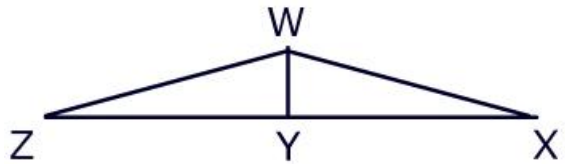
What other information do you need to be able to prove that these two triangles are congruent?



Proof B

Given: $\overline{WZ} \cong \overline{WX}$, \overline{WY} bisects \overline{ZX}

Prove: $\triangle WYZ \cong \triangle WYX$

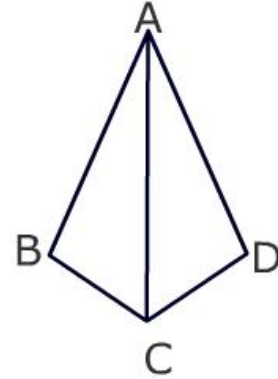


Statement	Reasons

Proof C

Given: $\overline{BA} \cong \overline{AD}$, $\overline{BC} \cong \overline{CD}$

Prove: $\triangle ABC \cong \triangle ADC$

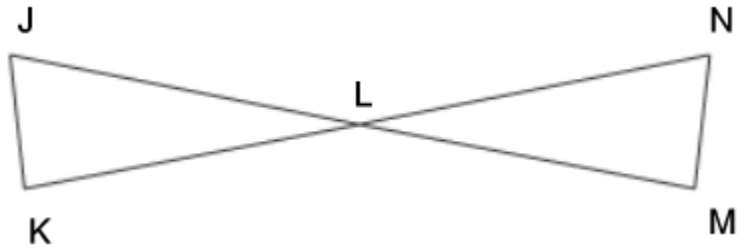


Statement	Reason

Proof D

Given: JM bisects KN, KN
bisects JM, JK \cong NM

Prove: $\triangle JLK \cong \triangle MLN$



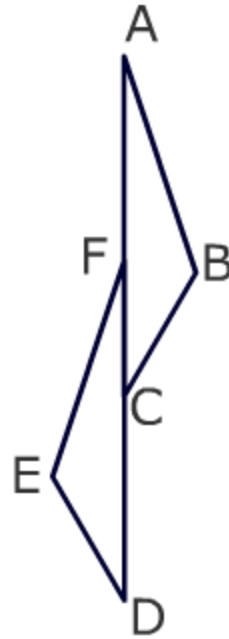
Statement	Reason

Think Pair Share

Is it possible to prove that the two triangles on the right are congruent using the SSS postulate?

Given: $AF \cong CD$, $AB \cong EF$, $BC \cong ED$

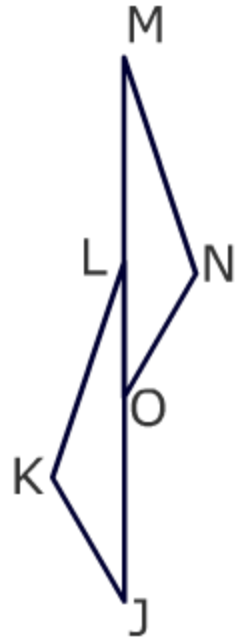
Explain your reasoning.



Proof E

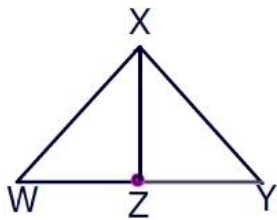
Given $MN \cong KL$, $ML \cong OJ$, $KJ \cong ON$.

Prove the triangles are congruent



Proof F

Given XZ is a median $WX \cong XY$. **Prove** the triangles are congruent



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