## 4-3 Solve It!



## 4-3 Lesson Quiz

1. Given: $\angle X W Y \cong \angle Z Y W, \angle X$ and $\angle Z$ are both right angles

Prove: $\triangle Y X W \cong \triangle W Z Y$

2. Do you UNDERSTAND? Which of the following best represents the answer and justification to the question: "Are the triangles congruent?"

A. Yes, by ASA.
B. Yes, by AAS.
C. Yes, by SSA.
D. No, there is not enough information to prove congruence.

## Answers

## Solve It!

The markings indicate that $\angle L \cong \angle A \cong \angle E$, $\angle C \cong \angle T \cong \angle N$, $\overline{B C} \cong \overline{D E} \cong \overline{V T} \cong \overline{M N}$, and $\overline{L M} \cong \overline{A B} \cong \overline{E F}$. By the Third Angles Theorem, $\angle B \cong \angle M$, so $\triangle A B C \cong \triangle L M N$ by $S A S$.

## Lesson Quiz

1. It is given that
$\angle X W Y \cong \angle Z Y W$, and $\angle X$ and $\angle Z$ are both right angles. So, $\angle X \cong \angle Z$ because all $\mathrm{rt} \triangleq$ are $\cong$. $\overline{W Y} \cong \overline{W Y}$ by the Reflexive Property of Congruence.

So, $\triangle Y X W \cong \triangle W Z Y$
by AAS.
2. D

