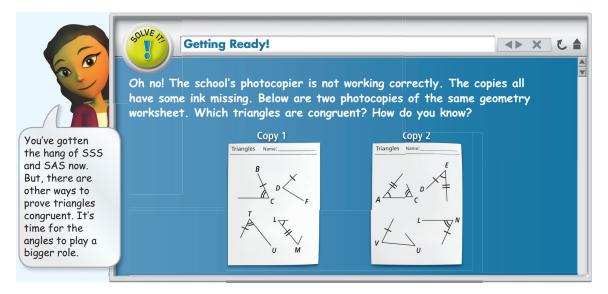
4-3 Solve It!



4-3 Lesson Quiz

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

Prove: $\triangle YXW \cong \triangle WZY$

- **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!

Lesson Quiz

The markings indicate that $\angle L \cong \angle A \cong \angle E$, $\angle C \cong \angle T \cong \angle N$, $\overline{BC} \cong \overline{DE} \cong \overline{VT} \cong \overline{MN}$, and $\overline{LM} \cong \overline{AB} \cong \overline{EF}$. By the Third Angles Theorem, $\angle B \cong \angle M$, so $\triangle ABC \cong \triangle LMN$ by SAS. **1.** It is given that $\angle XWY \cong \angle ZYW$, and $\angle X$ and $\angle Z$ are both right angles. So, $\angle X \cong \angle Z$ because all rt \measuredangle are \cong . $\overline{WY} \cong \overline{WY}$ by the Reflexive Property of Congruence. So, $\triangle YXW \cong \triangle WZY$ by AAS.

Ζ

W

γ

Х

2. D

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