Module 8   **Points, Lines, Angles, and Triangles**
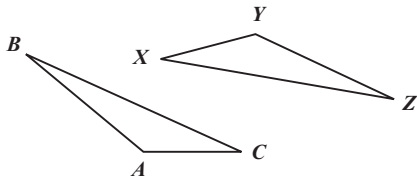**Lesson 5**   **Congruent Triangles**

Set 1

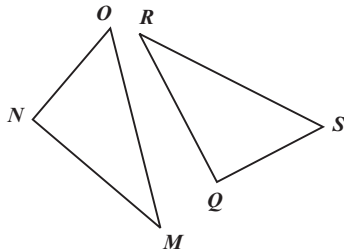**1** Name all the congruent corresponding parts of the two congruent triangles.

$\triangle ABC \cong \triangle YZX$

$\angle A \cong \angle Y$ $\overline{AB} \cong \overline{YZ}$

$\angle B \cong \angle Z$ $\overline{BC} \cong \overline{ZX}$

$\angle C \cong \angle X$ $\overline{AC} \cong \overline{YX}$

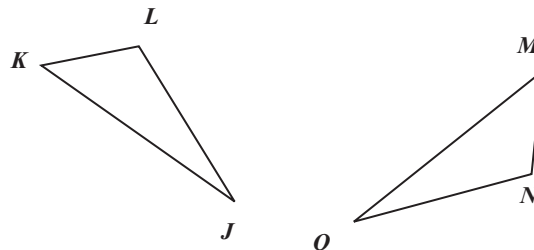**2** Complete the congruence statement in corresponding order.

$\angle M \cong \angle R$ $\overline{MN} \cong \overline{RQ}$

$\angle N \cong \angle Q$ $\overline{NO} \cong \overline{QS}$

$\angle O \cong \angle S$ $\overline{MO} \cong \overline{RS}$
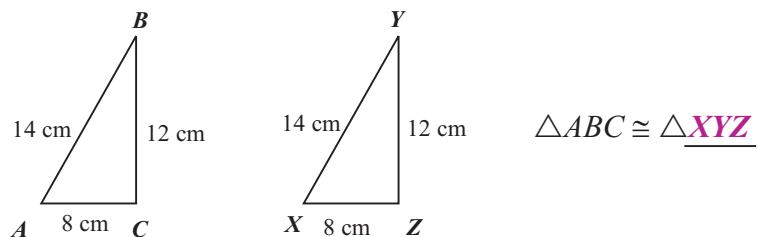
$\triangle MNO \cong \triangle \underline{RQS}$

3 $\triangle JKL \cong \triangle OMN$
Which side of $\triangle JKL$ is the same length as side $\overline{MN}$?
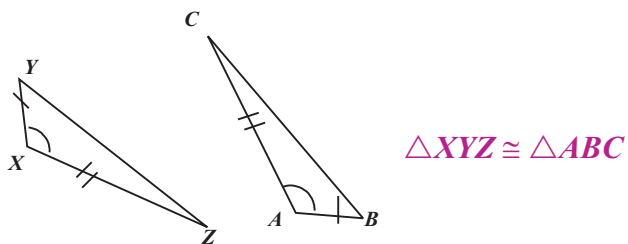
$\overline{KL} \cong \overline{MN}$

1 Complete the congruence statement about the triangles.

B
14 cm 12 cm
A 8 cm C

Y
14 cm 12 cm
X 8 cm Z

$\triangle ABC \cong \triangle \underline{\textbf{XYZ}}$

2 Determine whether the two triangles are congruent. If so, write a congruence statement.

C
Y
X
Z
A B

$\triangle \textbf{XYZ} \cong \triangle \textbf{ABC}$

3 Determine if the two triangles are congruent. If so, state the rule of congruence that proves it.

Y
Q
Z
P R X

Yes: Angle-Side-Angle Congruence