## Progress Assessment

Circle the letter of the best answer.

1. $\triangle A B C$ and $\triangle X Y Z$ are congruent triangles. Which statement is known to be true?
a. $\angle A \cong \angle B$
b. $\angle X \cong \angle Y$
c. $\angle B \cong \angle Y$
d. $\angle A \cong \angle Y$
2. $\triangle D E F$ and $\triangle T U V$ are congruent triangles. Which statement is known to be true?
a. $\overline{D E} \cong \overline{T U}$
b. $\overline{D F} \cong \overline{T U}$
c. $\overline{D F} \cong \overline{U V}$
d. $\overline{D E} \cong \overline{T V}$
3. If there are two triangles for which $\overline{F H} \cong \overline{M P}, \overline{H J} \cong \overline{P R}$, and $\overline{F J} \cong \overline{M R}$, which statement is known to be true?
a. $\triangle F H J \cong \triangle R M P$
b. $\triangle F H J \cong \triangle M P R$
c. $\triangle F H J \cong \triangle R P M$
d. $\triangle F J H \cong \triangle M P R$
4. $\triangle D E F$ and $\triangle G H I$ are congruent triangles where $\angle F \cong \angle I$. Which pairs of congruent components also indicate that the two triangles are congruent?
a. $\angle D \cong \angle G$ and $\overline{D F} \cong \overline{G I}$
b. $\overline{F E} \cong \overline{H I}$ and $\overline{D E} \cong \overline{G H}$
c. $\angle D \cong \angle G$ and $\overline{D F} \cong \overline{H I}$
d. $\angle D \cong \angle G$ and $\angle E \cong \angle H$
5. Which set of equivalent measures does not make it possible to determine if any two given triangles are congruent?
a. angle-side-angle
c. angle-angle-side
b. side-angle-side
d. angle-angle-angle
6. A triangle congruent to $\triangle D E F$ is to be constructed. Only three components are measured. Which three components, if constructed in the order listed, will always create a congruent triangle?
a. angle-angle-angle
b. side-angle-side
c. side-side-angle
d. Only the three side lengths can be used to create a congruent triangle.

## continued

7. For $\triangle A B C$ and $\triangle D E F$, the following is given: $\overline{A B} \cong \overline{D E}, \overline{B C} \cong \overline{E F}$, and $\overline{A C} \cong \overline{D F}$. By which triangle congruence statement can it be concluded that the triangles are congruent?
a. SSS
b. SAS
c. ASA
d. It cannot be determined if the triangles are congruent.

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8. For $\triangle A B C$ and $\triangle D E F$, the following is given: $\angle A \cong \angle D, \angle B \cong \angle E$, and $\overline{A B} \cong \overline{D E}$. By which triangle congruence statement can it be concluded that the triangles are congruent?
a. SSS
b. SAS
c. ASA
d. It cannot be determined if the triangles are congruent.
9. For $\triangle A B C$ and $\triangle D E F$, the following is given: $\angle C \cong \angle F, \overline{A B} \cong \overline{D E}$, and $\overline{B C} \cong \overline{E F}$. By which triangle congruence statement can it be concluded that the triangles are congruent?
a. SSS
b. SAS
c. ASA
d. It cannot be determined if the triangles are congruent.
10. For $\triangle A B C$ and $\triangle D E F$, the following is given: $\angle C \cong \angle F, \overline{B C} \cong \overline{E F}$, and $\overline{A C} \cong \overline{D F}$. By which triangle congruence statement can it be concluded that the triangles are congruent?
a. SSS
b. SAS
c. ASA
d. It cannot be determined if the triangles are congruent.

Use what you have learned about triangle congruence to solve the following problem.
11. Angelo is creating a kite and wants to determine congruent parts.
a. Use the information in the diagram to list congruent parts of the kite.

b. Based on the information provided, is $\triangle A B D \cong \triangle C B D$ ? Explain your answer.

