

## Congruent Triangles

### Pre-Assessment

Circle the letter of the best answer.

- $\triangle UVW$  and  $\triangle XYZ$  are congruent triangles. Which statement is known to be true?
  - $\angle U \cong \angle V$
  - $\angle W \cong \angle X$
  - $\angle V \cong \angle X$
  - $\angle V \cong \angle Y$
- $\triangle ABC$  and  $\triangle DEF$  are congruent triangles. Which statement is known to be true?
  - $\overline{AB} \cong \overline{BC}$
  - $\overline{AB} \cong \overline{EF}$
  - $\overline{AC} \cong \overline{DF}$
  - $\overline{AB} \cong \overline{DF}$
- A triangle congruent to  $\triangle ABC$  is to be constructed. Only three components are measured. Which three components, if constructed in the order listed, will always create a congruent triangle?
  - side-side-angle
  - angle-angle-angle
  - angle-side-angle
  - Only the three side lengths can be used to create a congruent triangle.
- Which set of equivalent measures does not indicate that two triangles must be congruent?
  - angle-angle-angle
  - angle-side-angle
  - side-angle-side
  - angle-angle-side
- For  $\triangle ABC$  and  $\triangle DEF$ , the following is given:  $\angle A \cong \angle D$ ,  $\angle B \cong \angle E$ ,  $\angle C \cong \angle F$ . By which triangle congruence statement can it be concluded that the triangles are congruent?
  - SSS
  - SAS
  - ASA
  - It cannot be determined if the triangles are congruent.