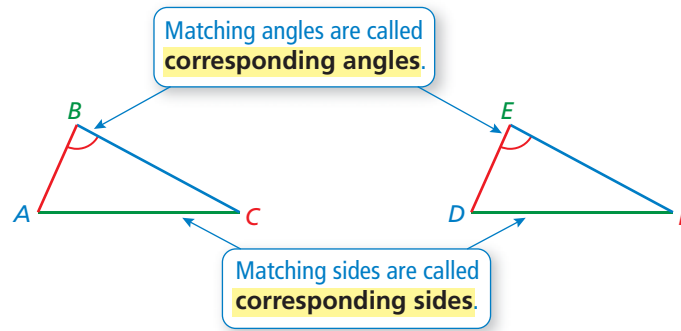


Congruent Figures

Figures that have the same size and the same shape are called **congruent figures**. The triangles below are congruent.



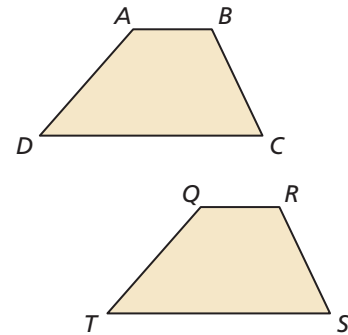
Example 1 The figures are congruent. Name the corresponding angles and the corresponding sides.

Corresponding Angles

- $\angle A$ and $\angle Q$
- $\angle B$ and $\angle R$
- $\angle C$ and $\angle S$
- $\angle D$ and $\angle T$

Corresponding Sides

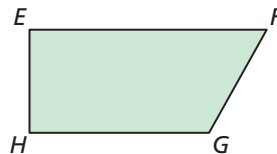
- Side \overline{AB} and Side \overline{QR}
- Side \overline{BC} and Side \overline{RS}
- Side \overline{CD} and Side \overline{ST}
- Side \overline{DA} and Side \overline{TQ}



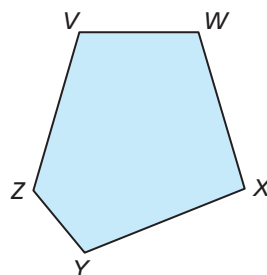
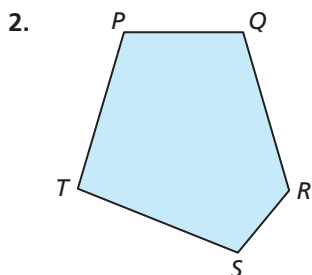
Practice

Check your answers at BigIdeasMath.com.

The figures are congruent. Name the corresponding angles and the corresponding sides.



Corresponding angles: $\angle A$ and $\angle E$, $\angle B$ and $\angle F$, $\angle C$ and $\angle G$, $\angle D$ and $\angle H$;
 Corresponding sides: Side \overline{AB} and Side \overline{EF} , Side \overline{BC} and Side \overline{FG} , Side \overline{CD} and Side \overline{GH} , Side \overline{DA} and Side \overline{HE}



Corresponding angles: $\angle P$ and $\angle W$, $\angle Q$ and $\angle V$, $\angle R$ and $\angle Z$, $\angle S$ and $\angle Y$, $\angle T$ and $\angle X$;
 Corresponding sides: Side \overline{PQ} and Side \overline{WV} , Side \overline{QR} and Side \overline{VZ} , Side \overline{RS} and Side \overline{ZY} , Side \overline{ST} and Side \overline{YX} , Side \overline{TP} and Side \overline{XW}