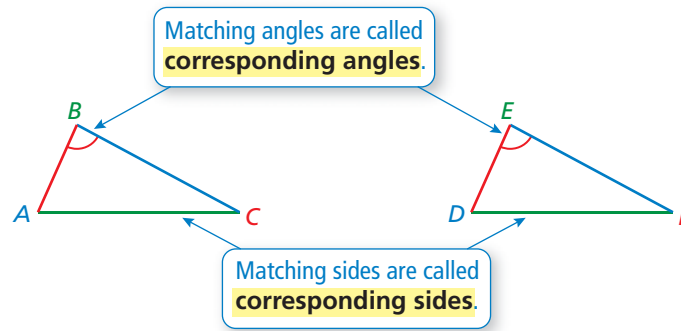


# Congruent Figures

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



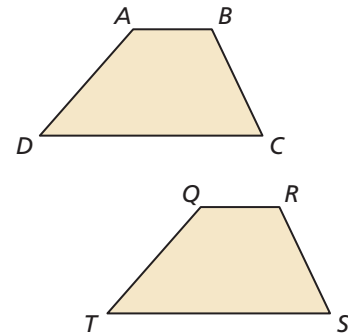
**Example 1** The figures are congruent. Name the corresponding angles and the corresponding sides.

**Corresponding Angles**

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

**Corresponding Sides**

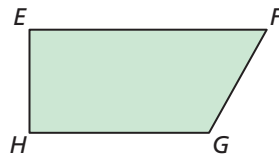
- Side  $\overline{AB}$  and Side  $\overline{QR}$
- Side  $\overline{BC}$  and Side  $\overline{RS}$
- Side  $\overline{CD}$  and Side  $\overline{ST}$
- Side  $\overline{DA}$  and Side  $\overline{TQ}$



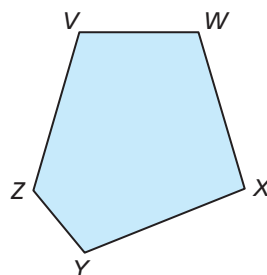
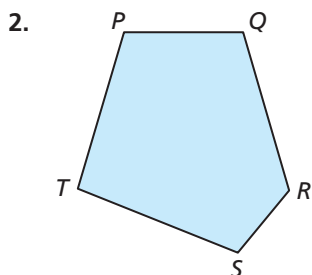
## Practice

Check your answers at [BigIdeasMath.com](http://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  $\overline{XW}$