

# 7-2 Study Guide and InterventionSimilar Polygons

**Identify Similar Polygons** Similar polygons have identical shape but not necessarily the same size.

**Example 1** In  $\triangle ABC \sim \triangle DEF$ , the corresponding angles are angles and angles and corresponding sides are corresponding sides.

Write the similarity statement.

Corresponding angles:  $\angle A \cong \angle D$ ,  $\angle B \cong \angle E$ ,  $\angle C \cong \angle F$ ,  $\angle A \cong \angle D$ ,  $\angle B \cong \angle E$ , and  $\angle C \cong \angle F$ .

Corresponding sides:  $\frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF}$ .



**Example 2** Determine whether the pair of figures is similar. If so, write the similarity statement and explain how you know.

**Figure 1** Two quadrilaterals sharing a vertex

Are the sides of the two quadrilaterals proportional?

Corresponding angles are congruent.



**Figure 2** Two quadrilaterals sharing a side

$\frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF} = \frac{AD}{EF} = \frac{AE}{DF} = \frac{AF}{DE} = \frac{AF}{DE} = \frac{AE}{DF} = \frac{AF}{DE} = \frac{AE}{DF} = \frac{AF}{DE} = \frac{AE}{DF}$

Are the corresponding sides of the quadrilaterals proportional? Explain.

The quadrilaterals are similar with a scale factor of  $\frac{1}{2}$ .

**Exercise**

Identify all pairs of corresponding angles, corresponding sides, and corresponding diagonals of the two quadrilaterals.



**Figure 3** Two triangles



**Exercise** Determine whether each pair of figures is similar. If so, write the similarity statement and explain how you know.



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**JR Anderson**



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