

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 angle measures and side lengths are shown. Write the 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: $\overline{AB} \cong \overline{DE}$, $\overline{BC} \cong \overline{EF}$, and $\overline{AC} \cong \overline{DF}$.



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

Example 2 Two pairs of corresponding angles

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

Corresponding angles are congruent.

Example 2 Corresponding angles and sides

$\frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF} = \frac{1}{2}$, $\frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF} = \frac{1}{2}$, and $\frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF} = \frac{1}{2}$.

Two corresponding sides are congruent. $\angle A \cong \angle D$, $\angle B \cong \angle E$, and $\angle C \cong \angle F$.

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

Exercise 1

Identify all pairs of corresponding angles, write the proportion that relates the corresponding sides, and state if the polygons are similar.

Example 1 $\triangle ABC \sim \triangle DEF$



Example 2 $\triangle ABC \sim \triangle DEF$



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



Exercise 3



Exercise 4

Exercise 5

Study Guide Similar Polygons Answers

Ying-Ying Zheng



Study Guide Similar Polygons Answers:

Study Guide Similar Polygons Answers Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Study Guide Similar Polygons Answers**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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