

## Study Guide Similar Polygons Answers

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### Study Guide Similar Polygons Answers

Determine whether the pair of figures is similar. If so, write the similarity statement and scale factor. Explain your reasoning. Step 1 Compare corresponding angles.  $\angle W \cong \angle P$ ,  $\angle X \cong \angle Q$ ,  $\angle Y \cong \angle R$ ,  $\angle Z \cong \angle S$  Corresponding angles are congruent. Step 2 Compare corresponding sides.  $\frac{WX}{PQ} = \frac{12}{8} = \frac{3}{2}$ ,  $\frac{XY}{QR} = \frac{18}{12} = \frac{3}{2}$ ,  $\frac{YZ}{RS} = \frac{12}{8} = \frac{3}{2}$

### NAME DATE PERIOD 7-2 Study Guide and Intervention

Similar Polygons Similar polygons have the same shape but not necessarily the same size. Example 1: If  $\triangle ABC \sim \triangle XYZ$ , list all pairs of congruent angles and write a proportion that relates the corresponding sides. Use the similarity statement.

### 7-2 Study Guide and Intervention - Shelby County Schools

Chapter 7 : Similarity 7.2 Similar Polygons. Click below for lesson resources. To view a PDF file, you must have the Adobe® Acrobat® Reader installed on your computer.

### Chapter 7 : Similarity : 7.2 Similar Polygons

7-2 Study Guide Similar Polygons Identify Similar Polygons Similar polygons have the same shape but not necessarily the same size. Example 1: If  $\triangle ABC \sim \triangle XYZ$ , list all pairs of congruent angles and write a proportion that relates the corresponding sides. Use the similarity statement. Congruent angles:  $\angle A \cong \angle X$ ,  $\angle B \cong \angle Y$ ,  $\angle C \cong \angle Z$  Proportion:  $\frac{AB}{XY} = \frac{BC}{YZ} = \frac{CA}{ZX}$  If so,

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### Similar Polygons: Definition and Examples - Study.com

Angle-Angle Similarity. two polygons are similar if their corresponding angles are con.... triangle RST is similar to triangle XYZ.  $\frac{AB}{EF} = \frac{BC}{FG} = \frac{CD}{GH} = \frac{DA}{HE}$ . if two angles of one triangle are congruent to 2 angles of another.... Similar polygons. two polygons are similar if their corresponding angles are con....

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### Similar Polygons - Study.com

When we say that two polygons are similar, we mean that the only difference between them is size. If one is the exact same shape as the other, just smaller or larger, then they are similar.

### Similar Polygons: Definition and Examples - Study.com

Answers: 1. B, C, F 2. a. Polygons B, C, and E b. Answers vary. For B, dilate with center P and a scale factor of 2, then translate 6 squares down. For C, dilate using scale factor 0.5 and center S, and then reflect over line PS and translate 3 squares down and 7.5 squares to the right.

### Unit 1 Study Guide Transformations: Congruence & Similarity

These triangles are similar because they have congruent angles and have corresponding side lengths.  $\frac{20}{10} = \frac{12}{6} = \frac{17}{7}$  Two polygons are similar if the corresponding angles are congruent and the corresponding side lengths are proportional. Unit 6 study guide

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NAME 7-2 DATE Study Guide and Intervention Similar Polygons PERIOD Identify Similar Polygons Similar polygons have the same shape but not necessarily the same size. Example If  $\triangle ABC \sim \triangle XYZ$ , list all pairs of congruent angles and write a proportion that relates the corresponding sides. Use the similarity statement.

### amityschoolsjarvalho

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(a)  $m \angle E = 90^\circ$  ( $\angle E$  and  $\angle A$  are corresponding angles of similar polygons, and corresponding angles of similar polygons are equal.) (b)  $\frac{9}{6} = \frac{12}{x}$  (If two polygons are similar, then the ratios of each pair of corresponding sides are equal.) Previous Properties of Proportions

### Similar Polygons - CliffsNotes Study Guides

6.12 The student will determine congruence of segments, angles, and polygons. 6.13 The student will describe and identify properties of quadrilaterals. 7.6 The student will determine whether plane figures—quadrilaterals and triangles—are similar and write proportions to express the relationships between corresponding sides of similar figures.

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Determine if these two polygons are similar. We are given that in pentagon A, the five sides and five angles are all congruent to each other, which

makes it a regular pentagon. Same for pentagon B. Since regular polygons with the same number of sides are always similar, we can determine that pentagon A is similar to pentagon B.

**Similarity in Other Polygons | Shmoop**

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