

LESSON 10.5

Similar and Congruent Polygons

BEFORE

You classified polygons.

Now

You'll use properties of similar and congruent polygons.

WHY?

So you can compare two sails, as in Exs. 2–3.

Word Watch

similar polygons, p. 502
congruent polygons, p. 502

Two polygons are **similar** if they have the same shape but not necessarily the same size. The symbol $\sim$ is used to indicate that two polygons are similar. **Congruent polygons** are similar polygons that have the same shape *and* the same size.

Similar Polygons	Congruent Polygons
LMN PQR  Angles Corresponding angles are congruent: $\angle L$ $\angle P$, $\angle M$ $\angle Q$, and $\angle N$ $\angle R$ Sides Ratios of lengths of corresponding sides are equal: $\frac{LM}{PQ} = \frac{MN}{QR} = \frac{LN}{PR}$	ABC DEF  Angles Corresponding angles are congruent: $\angle A$ $\angle D$, $\angle B$ $\angle E$, and $\angle C$ $\angle F$ Sides Corresponding sides are congruent: AB DE, AC DF, and BC EF

Help with Reading

If two polygons are similar, then the ratio of the lengths of corresponding sides is called the **scale factor**.

Watch Out!



When naming congruent or similar polygons, list the letters for the corresponding vertices in the same order. For instance, in Example 1 you cannot write $\triangle RST \sim \triangle WYZ$ because $\angle R$ and $\angle Y$ are not corresponding angles.

EXAMPLE 1 Finding Measures of Congruent Polygons

Given that $\triangle RST \cong \triangle XYZ$, name the corresponding sides and corresponding angles. Then find XY .



Corresponding sides: RS and XY , RT and XZ , ST and YZ

Corresponding angles: $\angle R$ and $\angle X$, $\angle S$ and $\angle Y$, $\angle T$ and $\angle Z$

Because XY and RS are corresponding sides, they are equal in length.

$$XY = RS = 6 \text{ inches}$$

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N Noddings



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