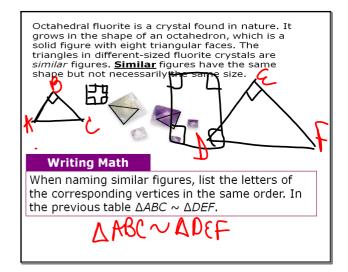
5-7 Similar Figures and Proportions

p. 300 3-12-18

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Mar 14-10:56 AM

Matching sides of two or more polygons are called <u>corresponding sides</u>, and matching angles are called <u>corresponding angles</u>.

AB~ DE Corresponding angles F

SIMILAR FIGURES

Two figures are similar if

- The measures of their corresponding angles are equal.
- The ratios of the lengths of the corresponding sides are proportional.

Reading Math

A side of a figure can be named by its endpoints, with a bar above.

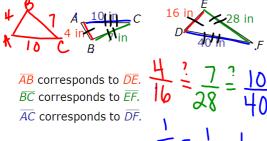
AΒ

Without the bar, the letters indicate the *length* of the side.

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Identify the corresponding sides in the pair of triangles. Then use ratios to determine whether the triangles are similar.

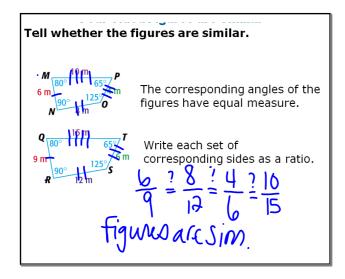


Thyare similar A's

Identify the corresponding sides in the pair of triangles. Then use ratios to determine whether the triangles are similar.

A pain C 9 in E 21 in E 3 in E 21 in E 3 in E 21 in E 3 in E 2 in E 3 in E 3 in E 4 in E 4 in E 4 in E 5 in E 6 in E 7 in E 8 in E

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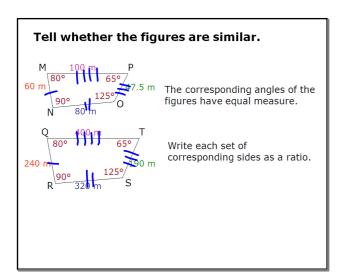


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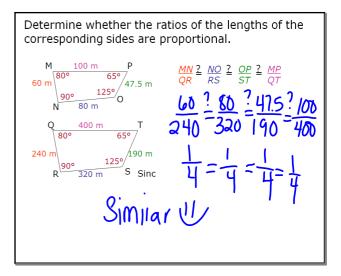
Determine whether the ratios of the lengths of the corresponding sides are proportional.

$$\frac{MN}{QR} \stackrel{?}{=} \frac{NO}{RS} \stackrel{?}{=} \frac{OP}{ST} \stackrel{?}{=} \frac{MP}{QT} \qquad \begin{array}{c} \textit{Write ratios using} \\ \textit{corresponding sides.} \end{array}$$

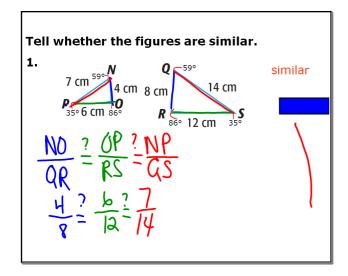
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Mar 14-11:01 AM Mar 14-11:02 AM

