

Similar Symbol

\sim

Similar Triangles = EXACTLY THE SAME SHAPE, BUT DIFFERENT SIZE

Triangle Similarity Statement: Shows the congruent angles and proportional sides

Sides:

- $\angle A \cong \angle D$
- $\angle B \cong \angle E$
- $\angle C \cong \angle F$



Sides:

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

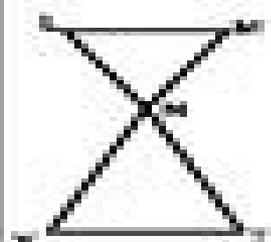
$$\frac{10}{5} = \frac{12}{6} = \frac{14}{7}$$

$$\frac{2}{1} = \frac{2}{1} = \frac{2}{1} \Rightarrow 2$$

SCALE FACTOR → ratio of a set of sides in similar triangles

Example 1:

Given $\triangle LMN \sim \triangle PQR$ Complete the statements below:



$\angle L \cong$ _____ $\angle M \cong$ _____ $\angle N \cong$ _____

$$\frac{LN}{PN} = \frac{MN}{QN}$$

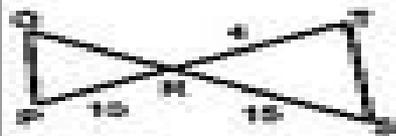
Example 2:

Given $\triangle ABC \sim \triangle DEF$, find the scale factor of $\triangle ABC$ to $\triangle DEF$.



Example 3:

Given $\triangle POQ \sim \triangle ROP$, find the scale factor of $\triangle ROP$ to $\triangle POQ$.



Geometry Notetaking Guide Answers Chater 9

R Sandford



Geometry Notetaking Guide Answers Chater 9:

This book delves into Geometry Notetaking Guide Answers Chater 9. Geometry Notetaking Guide Answers Chater 9 is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Geometry Notetaking Guide Answers Chater 9, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Geometry Notetaking Guide Answers Chater 9
 - Chapter 2: Essential Elements of Geometry Notetaking Guide Answers Chater 9
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 - Chapter 5: Conclusion
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