



ESSENTIAL QUESTION:

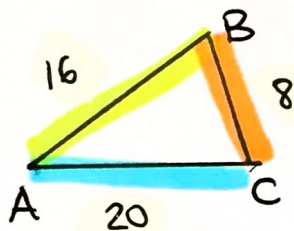
QUESTIONS:

NOTES:

Ratio - comparison of 2 quantities
 examples $a:b$, $\frac{a}{b}$, or "a to b"

Similar shapes - same shape, not necessarily same size

notation: \sim



$\Delta ABC \sim \Delta DEF$ (with an arrow pointing to the tilde symbol labeled "similar")

ΔABC is similar to ΔDEF IF

① Corresponding angles \cong

$\angle A \cong \angle D$

$\angle B \cong \angle E$

$\angle C \cong \angle F$

② Corresponding Sides are in proportion

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

Scale factor / zoom factor - ratio between any pair of corresponding sides in similar figures

SUMMARY:



TOPIC/OBJECTIVE:

NAME:

CLASS/PERIOD:

DATE:

ESSENTIAL QUESTION:

QUESTIONS:

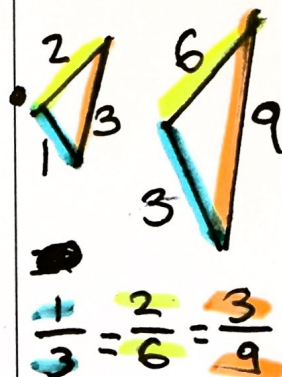
Similarity Conjectures Toolkit

Side-Side-Side (SSS) Similarity Conjecture

Definition:

IF 3 sides of a Δ are in proportion to 3 corresponding side of another Δ , then the Δ 's are \sim similar

Example:

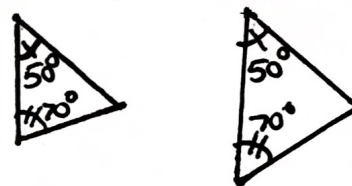


Angle-Angle (AA) Similarity Conjecture

Definition:

IF 2 angles of 1 Δ are congruent to 2 angles of a 2nd triangle, then triangles are similar \sim

Example:

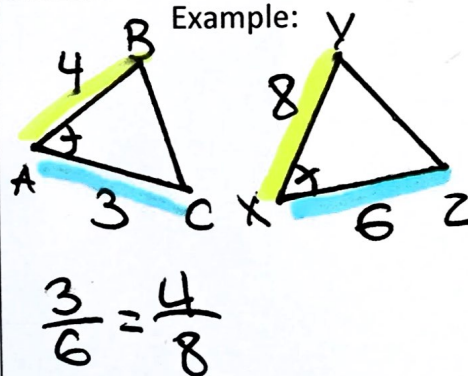


Side-Angle-Side Similarity Conjecture

Definition:

IF 2 Δ 's have corresponding angles that are \cong and the corresponding sides with equal ratios, the Δ 's are similar

Example:



SUMMARY: