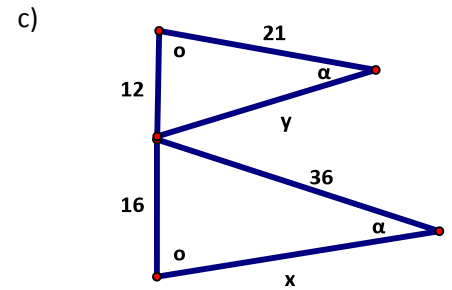
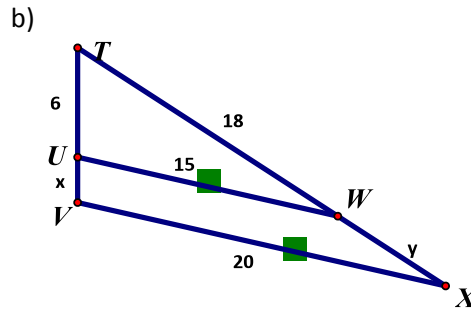
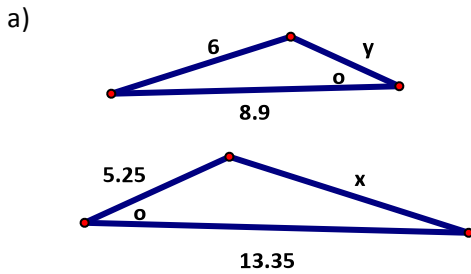


1. Solve for the missing information, given that the two triangles in each question are SIMILAR.



$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$

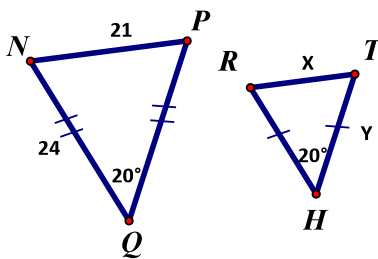
$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$

2. If the three sides of a triangle are in ratio of 1:4:2 and the perimeter of the triangle is 10.5 cm. What is the length of the longest side?

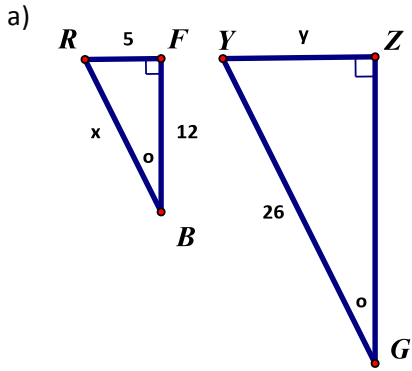
3. Use the scale factor to determine the missing values.

a) $\triangle QNP : \triangle HRT$ is 2:1



$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$

4. Use the Pythagorean Theorem and similarity. Solve for the missing values.

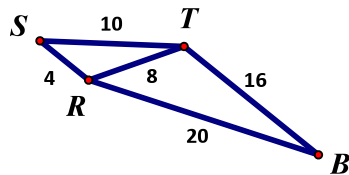


5. Are the following pairs of triangle similar? If YES, name the similarity criteria (SSS~, SAS~, AA~) and create a similarity statement. If NO, just circle No.

a) Yes / No

Criteria _____

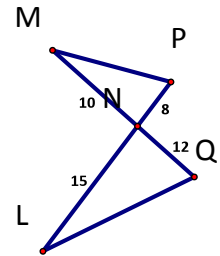
Δ _____ \sim Δ _____



b) Yes / No

Criteria _____

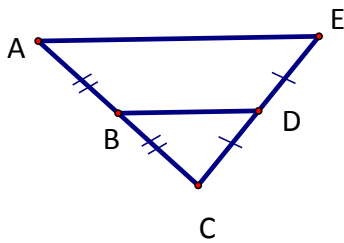
Δ _____ \sim Δ _____



c) Yes / No

Criteria _____

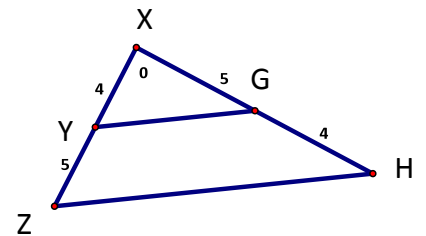
Δ _____ \sim Δ _____



d) Yes / No

Criteria _____

Δ _____ \sim Δ _____



6. Jeff asks the teacher is ASA is also a similarity criterion. The teacher says yes but it isn't needed. Why isn't it needed?