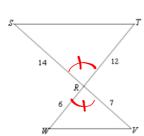
Name: Date: Period:

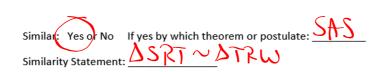
## Geometry 1-2 **Proving Triangles are Similar**

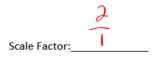
State if the triangles in each pair are similar. If so, state how you mathematically determined if they were similar or not (show your work). If they were similar provide theorem or postulate that proves they are similar, the scale factor and write the similarity statement.





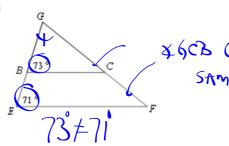
Long Short Short 
$$\frac{14}{7} = \frac{12}{6}$$

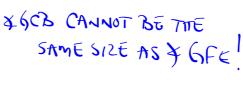




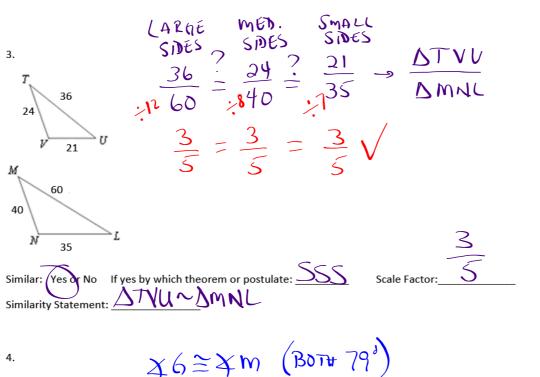
Example 2

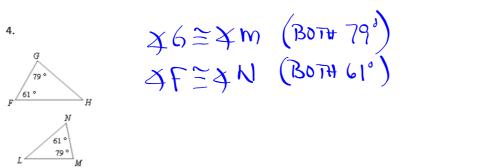






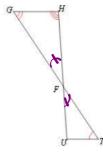
l) yes by which theorem or postulate: Similarity Statement:





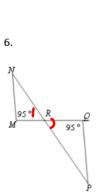


(NO SIDE LENGTHS GIVEN)



X6FH = XTFW (VERTICAL &S)
NO OTHER = PAIRS!

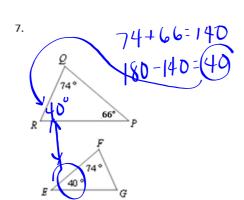
Similar: Yes or No If yes by which theorem or postulate: NA Scale Factor: Similarity Statement: \_



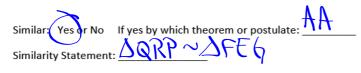
XM=XQ (BOTH 95°) XNRM=XPRQ

Similar: Yes or No If yes by which theorem or postulate:  $\triangle NRM \sim \triangle PRQ$ 

Scale Factor: N

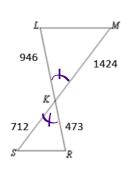


4Q=4F 4R=4E



Scale Factor:

8.



4LKM=4RKS

$$\frac{946}{473} \stackrel{?}{=} \frac{1424}{712} \rightarrow \frac{2}{1} = \frac{2}{1} \sqrt{\frac{1}{1}}$$
SHORT WHG

Similarity Statement: Myes by which theorem or postulate: SAS

Scale Factor:

