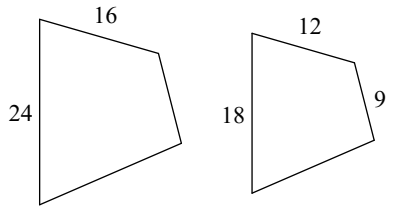
H Math 2 Name_____

Similarity Quiz Review

Date_____

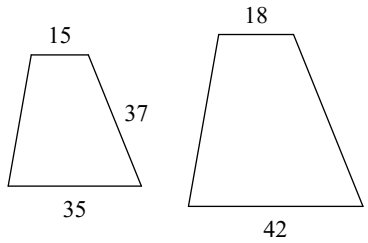
The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

1)



3 : 4

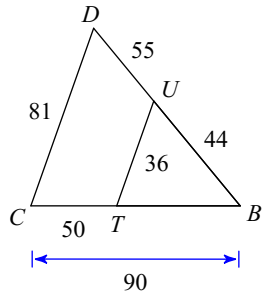
2)



5 : 6

State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

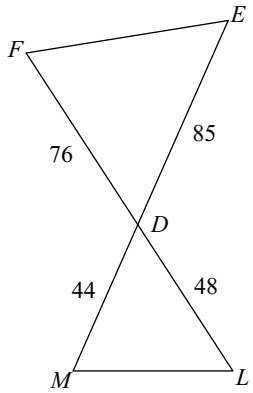
3)



$\triangle BCD \sim$ _____

similar; SSS and SAS similarity; $\triangle BTU$

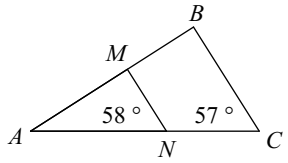
4)



$\triangle DEF \sim$ _____

not similar

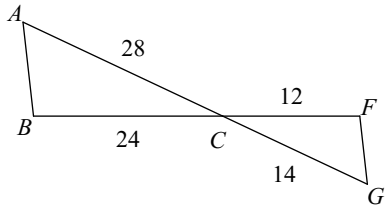
5)



$\triangle ABC \sim$ _____

not similar

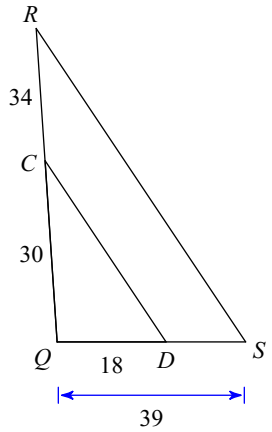
6)



$\triangle CBA \sim$ _____

similar; SAS similarity; $\triangle CFG$

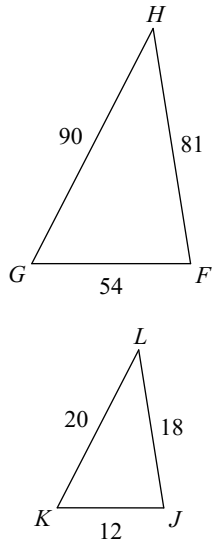
7)



$\triangle QRS \sim$ _____

not similar

8)

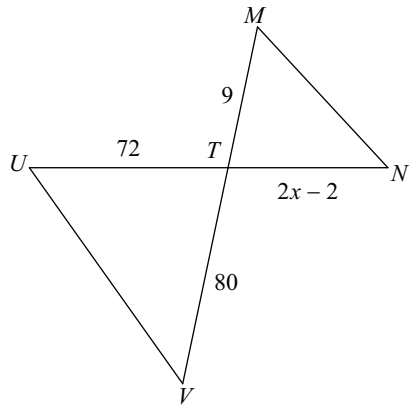


$\triangle FGH \sim$ _____

similar; SSS similarity; $\triangle JKL$

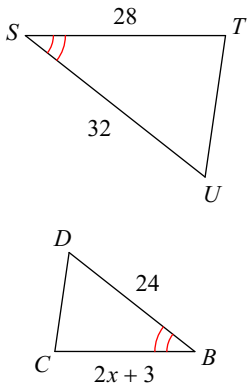
Solve for *x*. The triangles in each pair are similar.

9) $\triangle TUV \sim \triangle TMN$



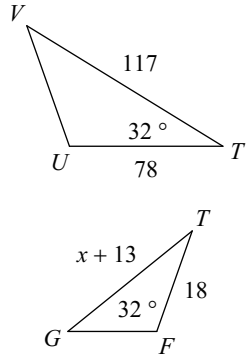
6

10) $\triangle STU \sim \triangle BCD$



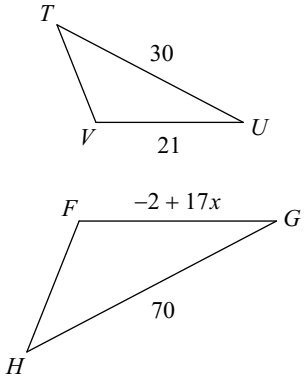
9

11) $\triangle TUV \sim \triangle TFG$



14

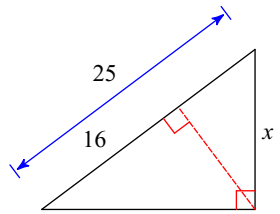
12) $\triangle HGF \sim \triangle TUV$



3

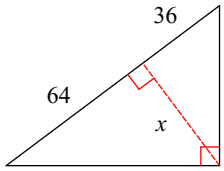
Find the missing length indicated. Leave your answer in simplest radical form.

13)



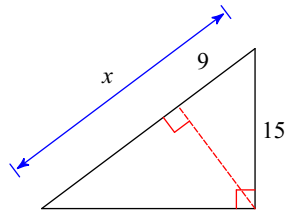
15

14)



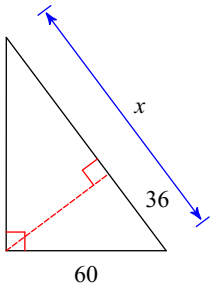
48

15)



25

16)



100

