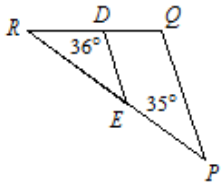
Name _____

Unit 6 REVIEW (second)

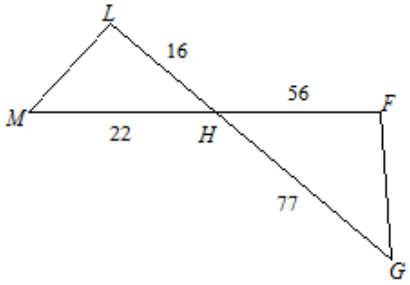
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

1)



$\Delta RQP \sim$ _____

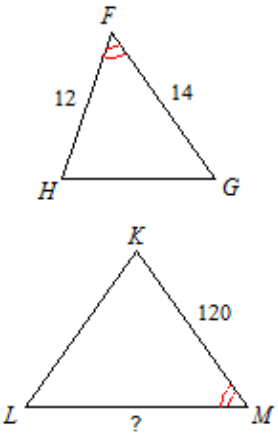
2)



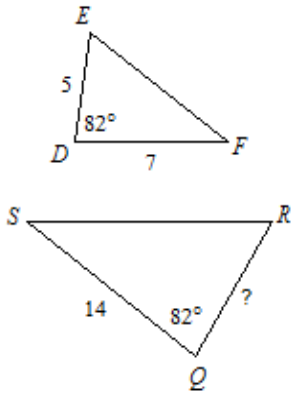
$\Delta HGF \sim$ _____

Find the missing length. The triangles in each pair are similar.

3)

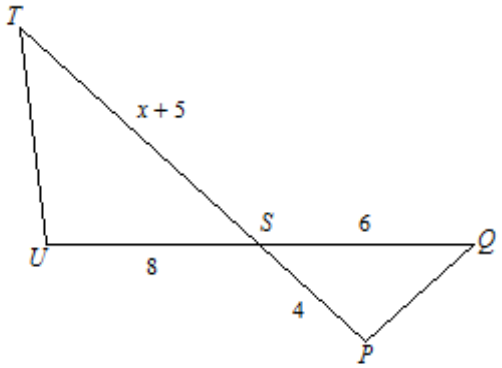


4)

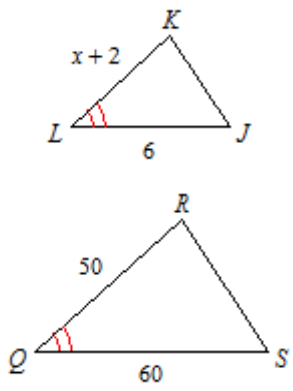


Solve for x. The triangles in each pair are similar.

5)

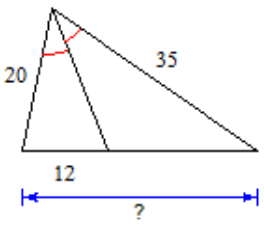


6)

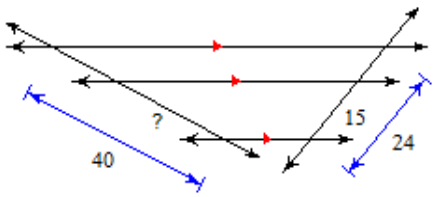


Find the missing length indicated.

7)

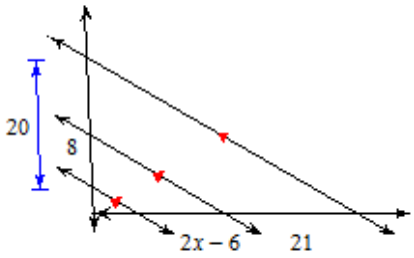


8)

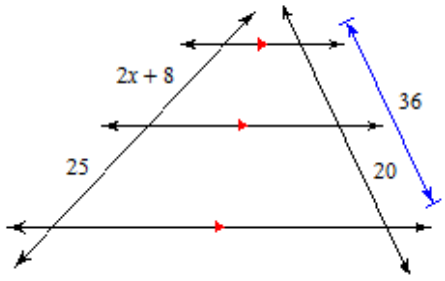


Solve for x.

9)

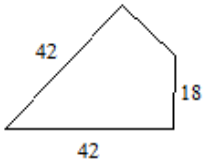


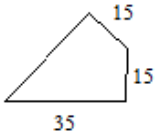
10)



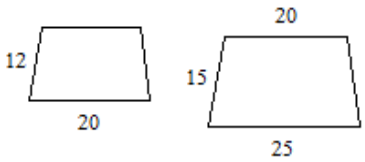
The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

11)



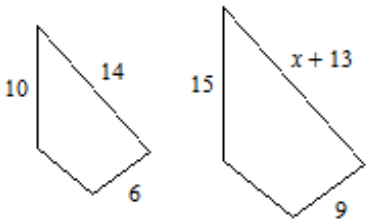


12)

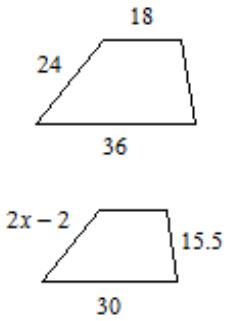


Solve for x. The polygons in each pair are similar.

13)

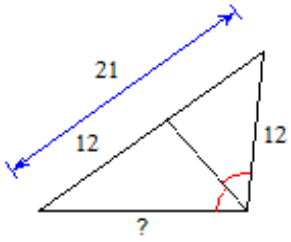


14)

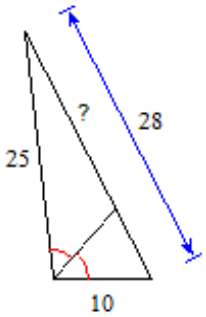


Find the missing length indicated.

15)

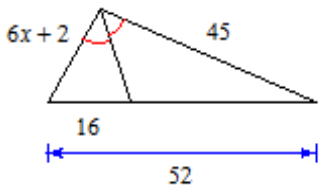


16)

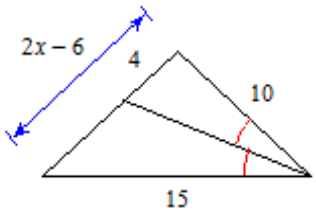


Solve for x.

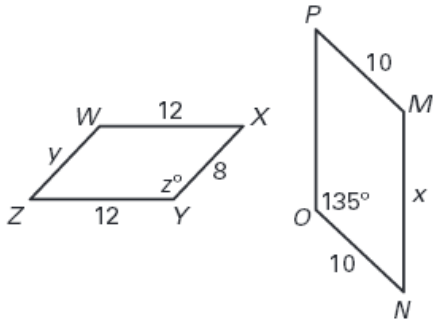
17)



18)

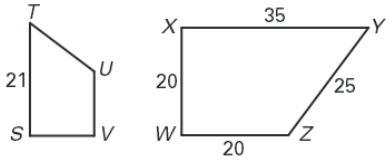


19. In the diagram WXYZ is similar to MNOP. Find the perimeter of **both** polygons.



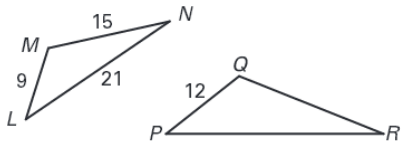
20. Find the perimeter.

$STUV \sim XYZW$

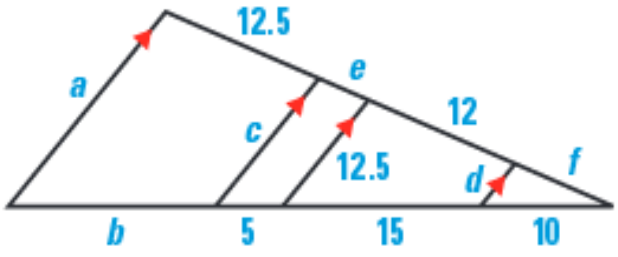


21. Find the perimeter.

$\triangle LMN \sim \triangle PQR$



22. Find all the variables.



a = _____

b = _____

c = _____

d = _____

e = _____

f = _____