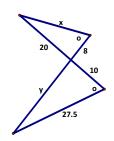
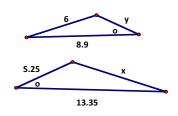
Solving Similar Triangles G.SRT.2

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

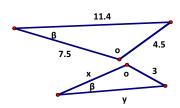
a)



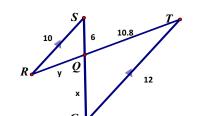
b)

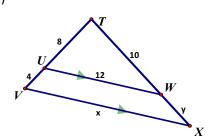


c)

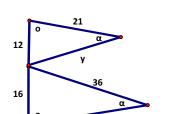


d)

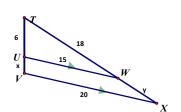




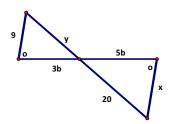
i)



g)



h)



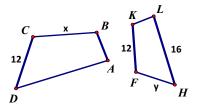
 Δ ABC has sides of 5,6,7

 $\Delta ABC \sim \Delta DEF$

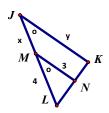
 Δ DEF has sides 9, x, y

2. If the three sides of a triangle are in ratio of 3:5:7 and the perimeter of the triangle is 12 cm. What is the length of the longest side?

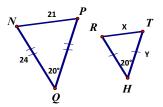
- 3. Use the scale factor to determine the missing values.
- a) CBAD: FKLH is 3:2



b) Δ LMN : Δ LJK is 1:2

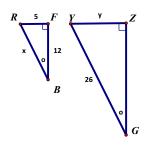


c) Δ QNP : Δ HRT is 2:1

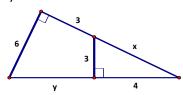


4. Use the Pythagorean Theorem to help you on these. Solving for the missing values.

a)



b)



c)

Right ΔABC has sides of AB = 8, BC = 15, & AC = xwhere AC is the hypotenuse

 $\Delta ABC \sim \Delta DEF$

Right ΔDEF has sides DE = z, EF = y, & DF = 51