Name_____ Date_____

2.5 – Similar Figures (Part 1)

Solve the proportions.

1) $\frac{d}{5} = \frac{80}{100}$

2) $\frac{v}{20} = \frac{8}{4}$

3) $\frac{r}{60} = \frac{40}{50}$

4) $\frac{16}{48} = \frac{12}{n}$

5) $\frac{49}{s} = \frac{56}{112}$

6) $\frac{6}{26} = \frac{a}{39}$

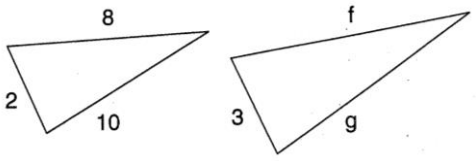
Tell whether the following are proportions. Explain.

7) $\frac{4}{7}$ and $\frac{20}{25}$

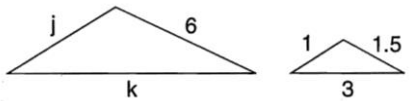
8) $\frac{21}{56}$ and $\frac{3}{8}$

Each of the following pairs of triangles are similar. Find the missing sides.

9)

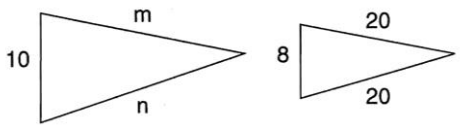


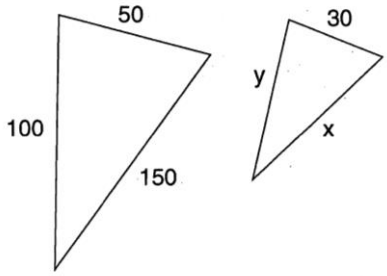
10)



f =_____ j =_____

g =_____ k =_____

11) 

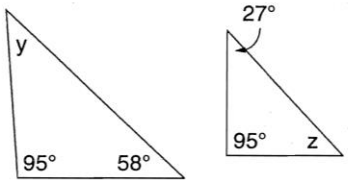
12) 

m =_____ x =_____

n =_____ y =_____

Find the missing angles of the similar triangles

13) 

14) 

Find the perimeter of the triangle to the right if both triangles are similar.

15)