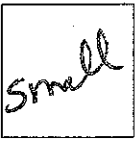

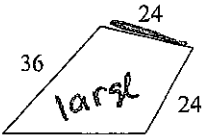
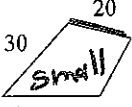


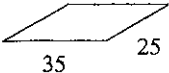
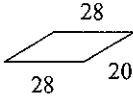
Similar Polygons - Solve Using Proportions

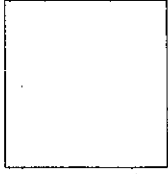

The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

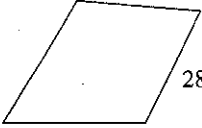
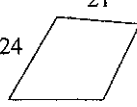
1)  $\frac{8}{16} = ?$

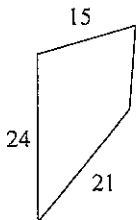
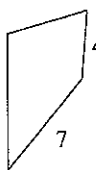


2)   $\frac{20}{24} = ?$

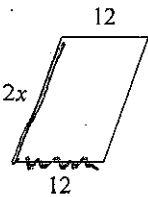
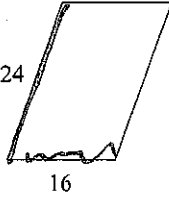
3)  

4)  

5)  

6)  

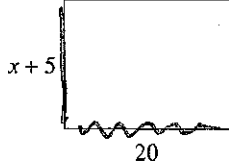
Solve for x. The polygons in each pair are similar.

7)  


$$\frac{2x}{24} = \frac{12}{16}$$

$$2x(16) = 12(24)$$

cross multiply
→ solve

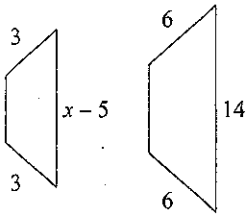
8) 

$$\frac{x+5}{12} = \frac{20}{16}$$

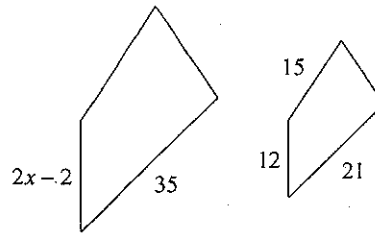


$16(x+5) = 20(12)$ cross multiply or solve

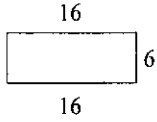
9)



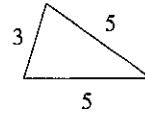
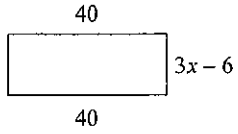
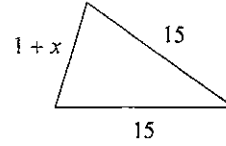
10)



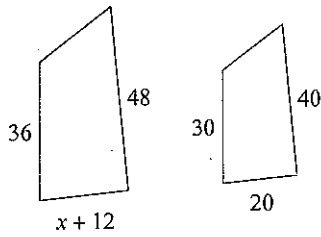
11)



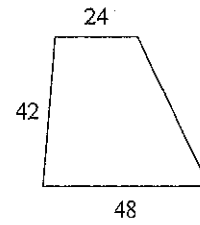
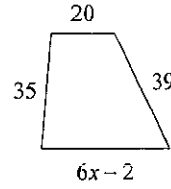
12)



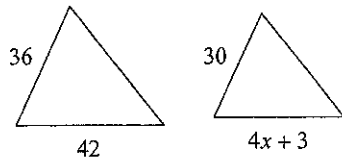
13)



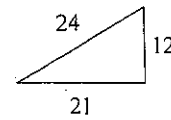
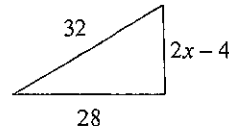
14)



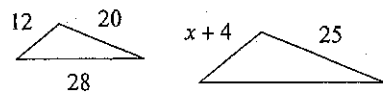
15)



16)



17)



18)

