

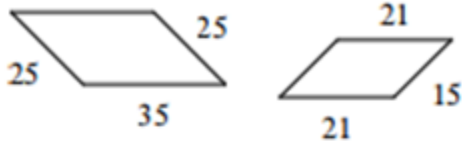
Name _____

Scale Practice

Part 1: Scale Factor

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

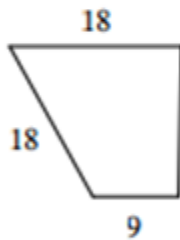
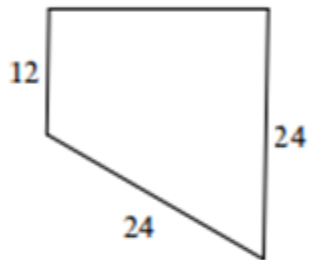
1)



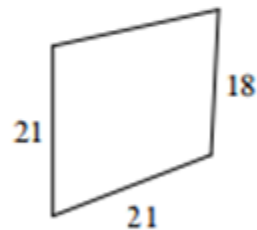
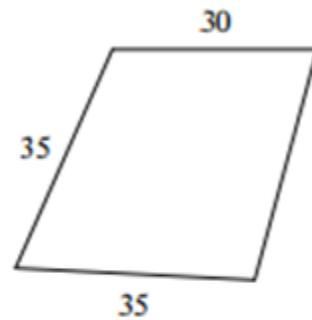
2)



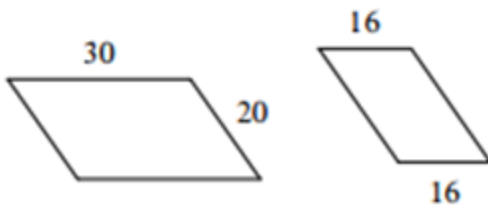
3)



4)



5)



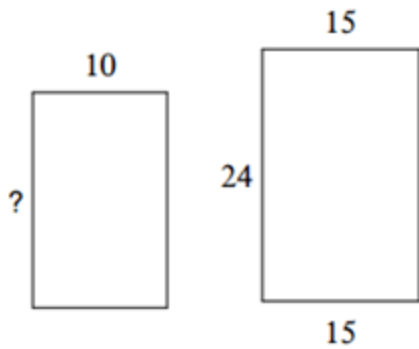
6)



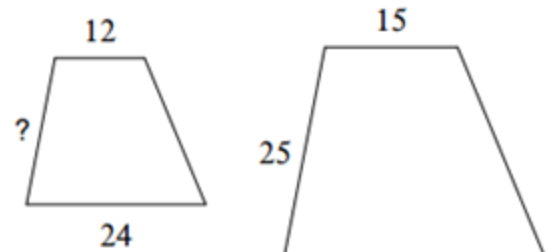
Part 2: Missing Side Lengths

Directions: The polygons in each pair are similar. Find the missing side length

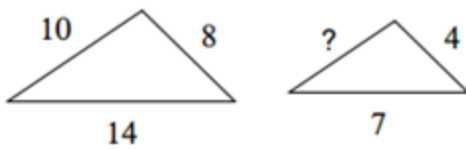
1)



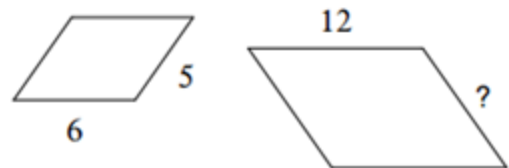
2)



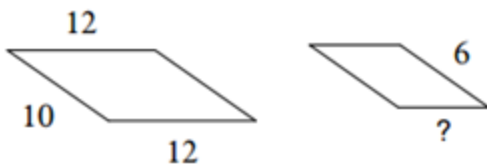
3)



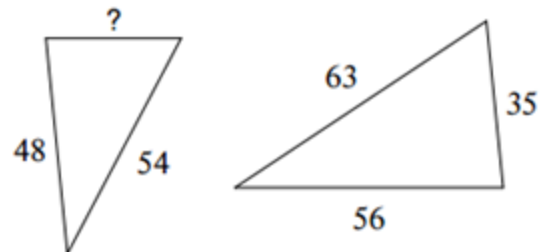
4)



5)



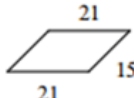
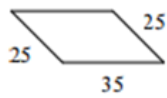
6)



Name _____ Key _____

Scale Practice

1)



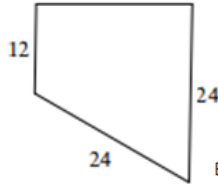
Big:small (set up right ratio)
 $25 : 15$ (divide by common factor)
 $5 : 3$ (correct ratio)

2)

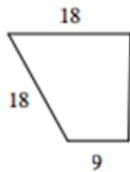


Big: Small
 $8 : 4$
 $2 : 1$

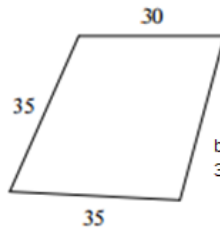
3)



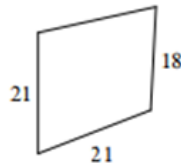
Big:small
 $24 : 18$ (Divide 6)
 $4 : 3$



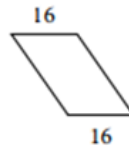
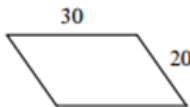
4)



big:small
 $35 : 21$ (Divide 7)
 $5 : 3$

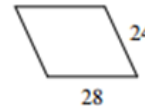
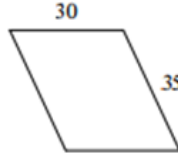


5)



Careful to work with corresponding sides
 Big:small
 $20 : 16$ (Divide out the 4)
 $5 : 4$

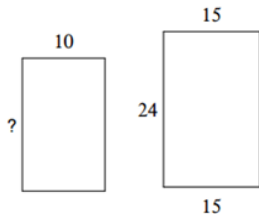
6)



It doesn't matter which corresponding side you use.
 Big:small
 $35 : 28$ (Divide by 7)
 $5 : 4$

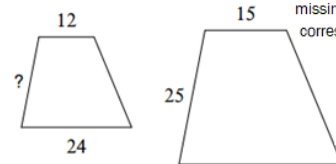
Big:small
 $30 : 24$ (Divide by 6)
 $5 : 4$

1)



$15 : 10$
 $24 : x$
 Since same ratio, can use scale factor and multiply 24 by scale factor.
 Scale factor is found by making left side = 1
 so, scale factor is $= 10/15$
 so, missing side $= 24 \times 10/15$
 missing side $= 240/15$
 missing side $= 16$

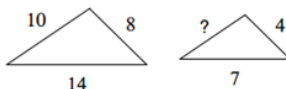
2)



missing side is equal to corresponding side times scale factor

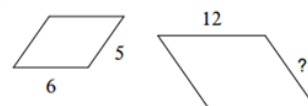
$? = 25 \times 12/15$
 $? = 300/15$
 $? = 20$

3)



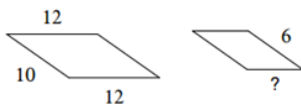
$? = 10 \times 4/8$
 $? = 40/8$
 $? = 5$

4)



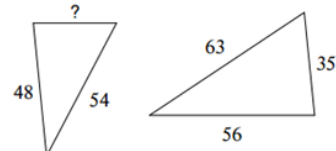
$? = 5 \times 12/6$
 $? = 60/6$
 $? = 10$

5)



$? = 10 \times 6/12$
 $= 60/12$
 $= 5$

6)



$? = 35 \times 48/56$
 $= 1680/56$
 $= 30$