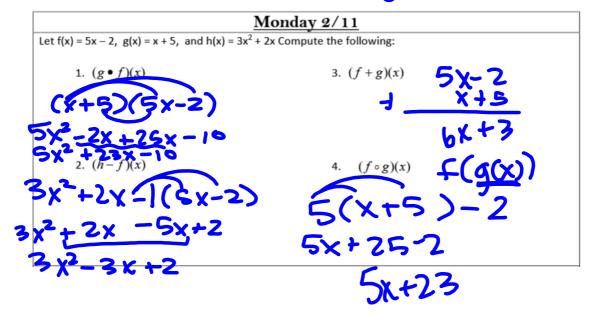
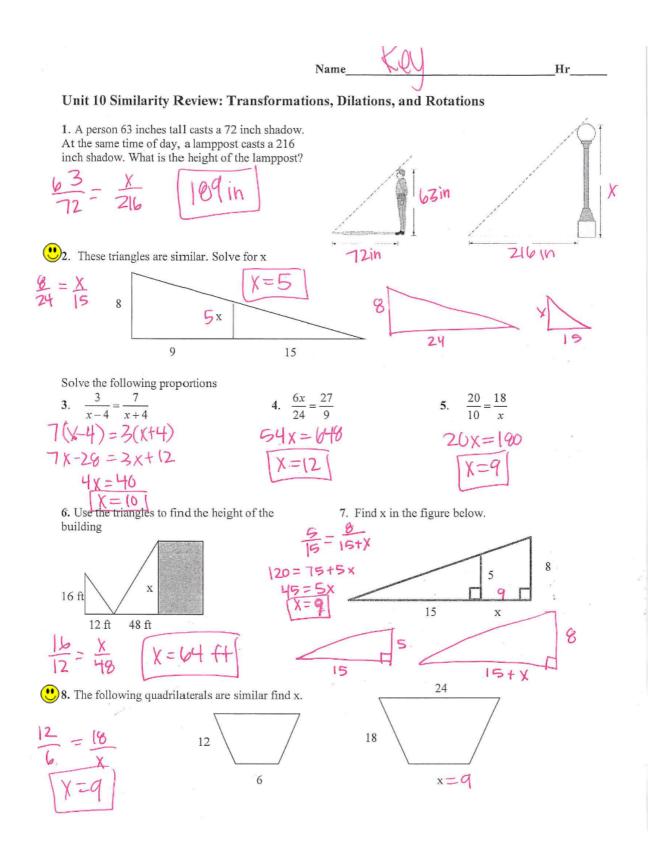
Grab a Bell Ringer



Correct Ch 10 Review



9. A building casts a shadow of 116 feet. A 20 foot flag pole near the building casts a shadow of 40 feet. How

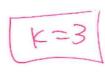
tall is the building?

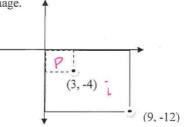






10. The dashed-line pre-image has been transformed to form the solid-line image. What is the scale factor of the dilation? Explain your reasoning.

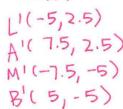


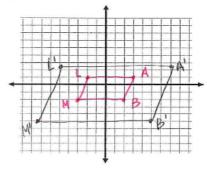


11. Find the scale factor of dilation given B (6, 10), B' (9, 15).

12. Find the image of Q(4, 9) after it is transformed by the dilation k = 3

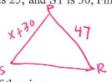
13. The Quadrilateral LAMB has vertices (-2, 1), (3, 1), (-3, -2), (2, -2). Draw a dilation with a scale factor of 2.5 and a center at (0, 0)

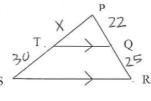


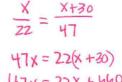


14. If PQ is 22, QR is 25, and ST is 30, Find PT

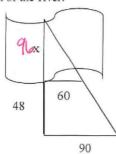


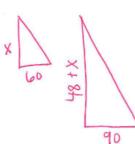


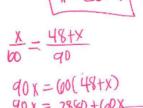




15. Find the width of the river.



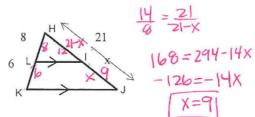




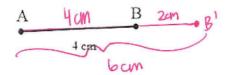
16. Given the following figure, find the value of x.



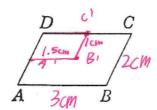




17. Given the segment below AB draw the dilation AB' with the center of dilation A and the scale factor of 1.5. Then state the length of AB'.



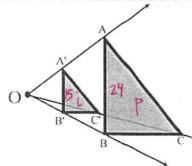
18. For the given shape, draw a dilation centered at D with a scale factor of $\frac{1}{2}$.



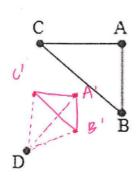
19. In the parallelogram ABCD from above, what are the dimensions, in centimeters, of the original figure and what are the dimensions of the dilated figure?

Original Figure: 3 x 2
Dilated Figure: 1.5 x 1

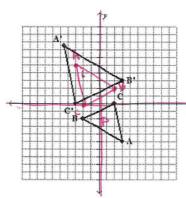
20. $\Delta A'B'C'$ is a dilation of ΔABC . If O is the center of dilation, what is the scale factor? AB = 24 and A'B' = 15.



21. Dilate $\triangle ABC$ with the given Center D and a scale factor of $\frac{1}{2}$.



! 22. For the graph, describe the composition of transformations that map $\triangle ABC$ onto $\triangle A'B'C'$.



Rotate 180° A' (-3,5) B1(2,2)

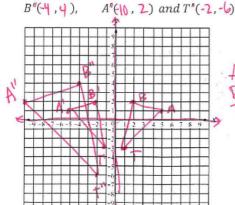
C'(-2,0)

Original A(3,-5) B(-2,-2) C(2,0)

Dilation 1: B"(3,3) = 1=3 P: B'(2,2)

Rotate 180°, difate w/ K= 3/2

23. $\triangle BAT$ has vertices B(2,2), A(5,1) and T(1,-3). Sketch the image and list the new vertices of B', A', and T' after it has been reflected across the y-axis and dilated by a scale factor of 2. Give the new coordinates.



Reflection A'(-5,1)

A(-5,1) B(-2,2) T(-1,-3) DILATION A"(-10,2) B"(-4,4) T"(-2,-6)

Similar Polygons...

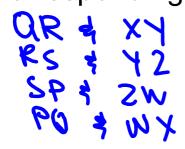
Same shape, not the same size

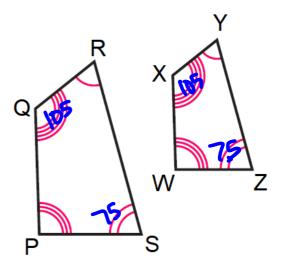
Corresponding angles are Congruent

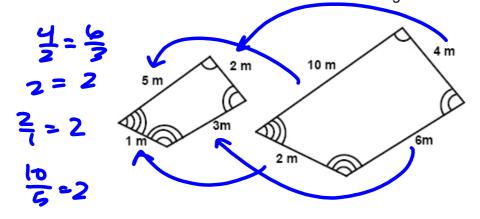
Corresponding sides are proportional

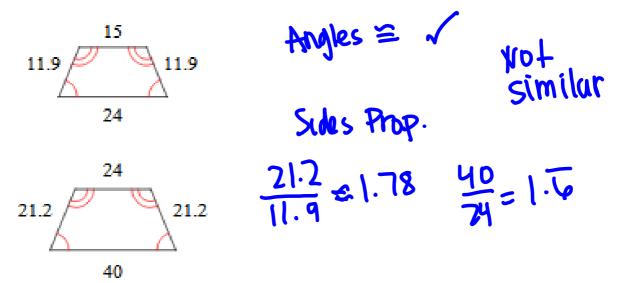
Corresponding angles:

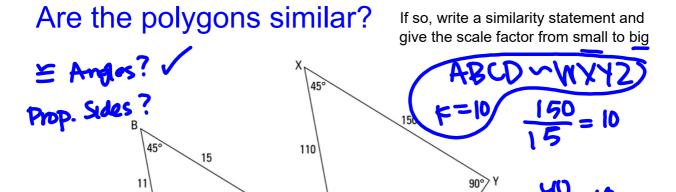
Corresponding sides:



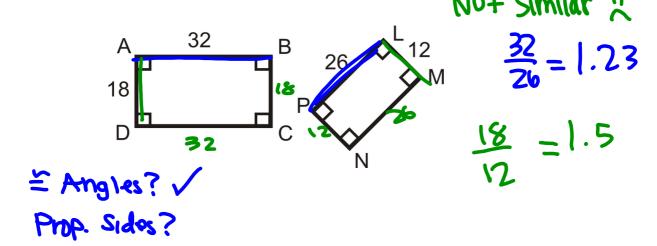


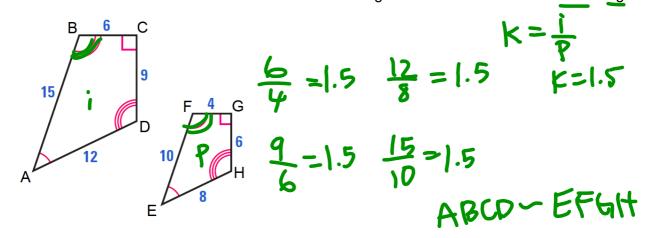






105°

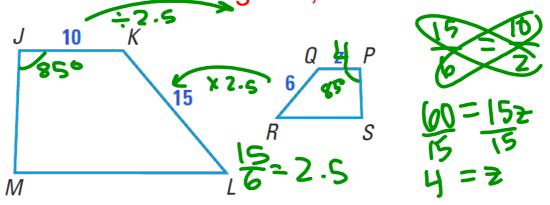




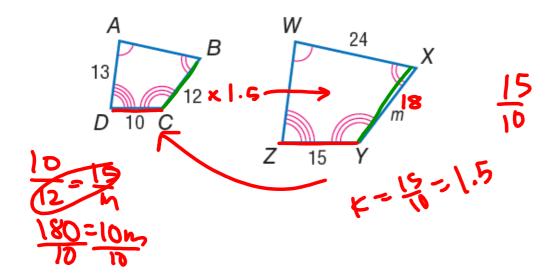
The polygons are similar.

1. Find z

2. If m < J = 85 degrees, find m < P



The polygons are similar. Find m.



due Wednesday

Secondary Math 2

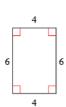
Name

10.2 Similar Polygons

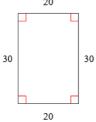
Date Hour

State if the polygons are similar.

1)



20

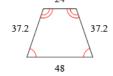


3)



5)



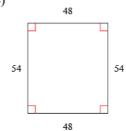


2)





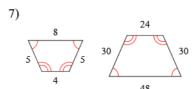
4)

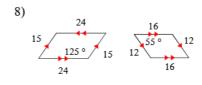


6)

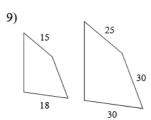


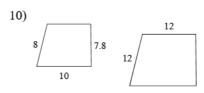


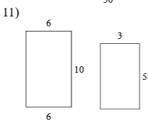


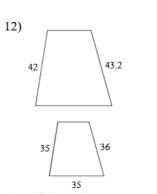


The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.









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

