Use the following to review for you test. Work the Practice Problems on a separate sheet of paper.

Topic	Things to remember	Examples	
A. Perform a dilation with a given scale factor	When the center of dilation is the origin, you can multiply each coordinate of the original figure, or preimage, by the scale factor to find the coordinates of the dilated figure, or image.	1. Dilate with k = 1/2.	2. Dilate with k = 2.
B. Find the missing side for similar figures.	Set up a proportion by matching up the corresponding sides. Then, solve for x.	3. $\frac{5}{3} = \frac{1}{4.5}$ 5. $\frac{4}{7} = \frac{1}{12}$ 6.9	4. A B B B S S S S S A A G C S S S S S A A G C S S S S S S S S S S S S
C. Midsegment Theorem	The segment connecting the midpoints of two sides of the triangle is parallel to the third side and 1/2 the length of the third side.	5. Find PQ and TP $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	6. Solve for x. $2(x+19) = x+29$ $2x+38 = x+29$ $x+19$ $x+29$ $x+29$
D. Determine if 2 triangles are similar, and write the similarity statement.	Remember the 3 ways that you can do this: AA, SAS, SSS	7. ΔGNK - ΔLAH by SSS ~ 20 15 6 11 12 12 13 14 20 3/4 21 3/4 23/4	8. ΔABC -ΔΥΧΖ by AA ~ LA = LY LC = LZ 65° (65° (75° (10 cm) B

