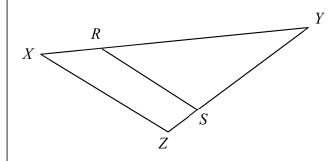
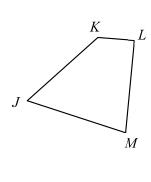
Name:		Date:
Topic:		Class:
Main Ideas/Questions	Notes/Examples	
SIMILAR POLYGONS	• If polygons are similar, then their _	
SCALE FACTOR (order matters!)	What is the scale factor of ΔABC to ΔDEF ? A What is the scale factor of ΔDEF to ΔABC ? What is the ratio of the perimeter of ΔDEF to ΔABC ?	$ \begin{array}{c c} B \\ \hline & 10 \\ \hline & 12 \\ \hline & 15 \\ \hline & D \end{array} $
Similarity Statements Symbol for Similar:	A <u>valid similarity statement</u> must match corresponding angles and sides! Write a similarity statement for the triangles above:	
Directions: List all congruent angles and write a proportion that relate corresponding sides.		and write a proportion that relates the
	1. $\Delta JKL \sim \Delta PMN$ J L N	Angles Sides

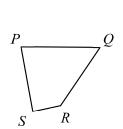
2. $\Delta XYZ \sim \Delta RYS$

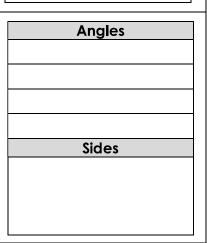


Angles
Sides

3. *JKLM* ∼ *QRSP*



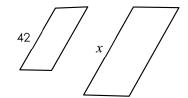




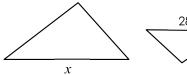
FINDING SIDE LENGTHS

(using proportions!)

4. If the figures below are similar with a scale factor of 2:3, find the value of x.

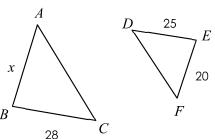


5. If the figures below are similar with a scale factor of 6:5, find the value of x.

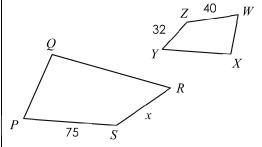




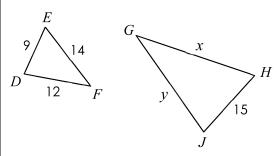
6. If $\triangle ABC \sim \triangle DEF$, find the value of x.



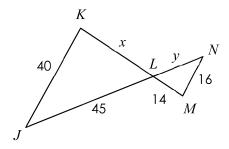
7. If $PQRS \sim WXYZ$, find the value of x.



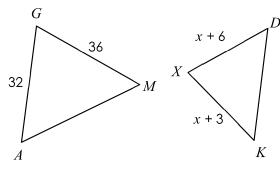




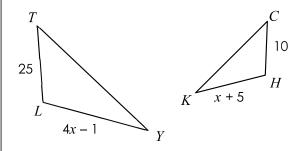
9. If $\Delta JKL \sim \Delta NML$, find the values of x and y.



10. If $\triangle AGM \sim \triangle KXD$, find the value of x.



11. If $\Delta TLY \sim \Delta CHK$, find LY.



12. If $\triangle BNV \sim \triangle BRG$, BR = 4x + 7, and BG = 18, find the value of x.

