8.1 Similar Polygons CYU

☐ Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake HUse when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

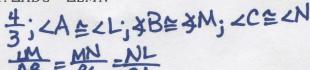
X Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

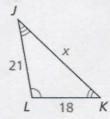
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Finding scale factor	1, 2	3, 4	5
Identifying congruent angles	1, 2	3, 4	5
Writing ratios of proportionality	1, 2	3, 4	5
Using similar polygons to solve for x	2, 6	3, 4, 7	5, 7
Identifying segments	6	7	7
Perimeter ratios	8	9	
Modeling with Mathematics	10	11	
Area ratios	12	13	
Error Analysis			13

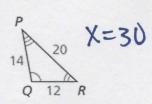
Find the scale factor. Then list all pairs of congruent angles and write the ratios of the corresponding side lengths in a statement of proportionality.

1. $\triangle ABC \sim \triangle LMN$

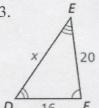


The polygons are similar. Find the value of x.



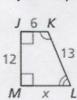


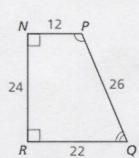
3.

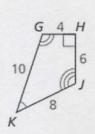




X=24







The black triangles are similar. Identify the type of segment shown in blue (lighter black in print) and find the value of the variable.

7.

