

Name Key

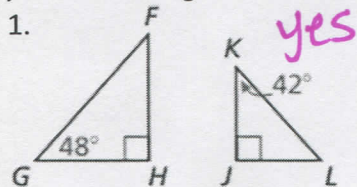
Date _____ Pd _____

8.2 – 8.3 DAY ONE CYU

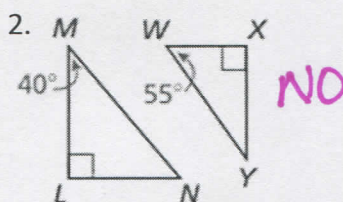
Use when you get it right all by yourself
S Use when you did it all by yourself, but made a silly mistake
H Use when you could do it alone with a little help from teacher or peer
G Use when you completed the problem in a group
X Use when a question was attempted but wrong (get help)
N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Determining if triangles are similar	1, 2, 14	3, 11, 15	3
Writing similarity statement	1, 2, 14	3, 10, 15	3
Determining which postulate	1, 2	3	3
Prove that triangles are similar	4	5	6
Using diagrams to solve for x	12	7, 8	9, 13
Finding scale factor of ~ triangles	14	15	

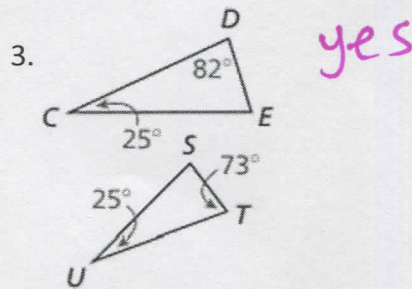
Determine whether the triangles are similar. If they are, write a similarity statement. Explain your reasoning.



yes
 $\angle H \cong \angle J$
 $\angle F \cong \angle K$
 $\triangle FGH \sim \triangle KLT$

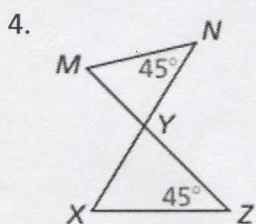


NO
 $\angle N = 50^\circ$

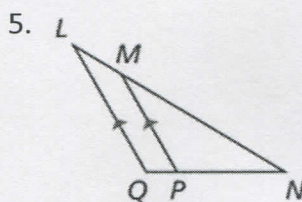


yes
 $\angle C \cong \angle U$
 $\angle E \cong \angle T$
 $\triangle CDE \sim \triangle UST$

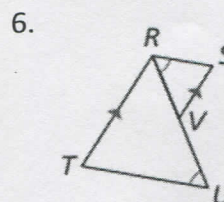
Show that the two triangles are similar.



$\angle M \cong \angle X$
 $\angle MYN \cong \angle XYZ$
 $\triangle MYN \sim \triangle XYZ$



$\angle Q \cong \angle MPN$
 $\angle N \cong \angle N$
 $\triangle LNQ \sim \triangle MPN$



$\angle VRS \cong \angle TRU$
 $\angle SVR \cong \angle TRU$
 $\triangle SVR \sim \triangle TRU$

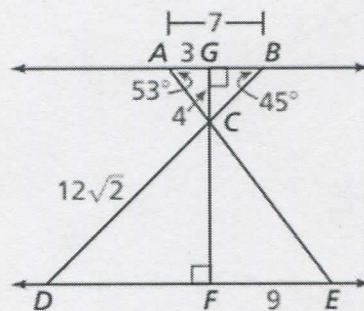
Use the diagram provided to complete the statement.

7. $m\angle ECD = 82^\circ$

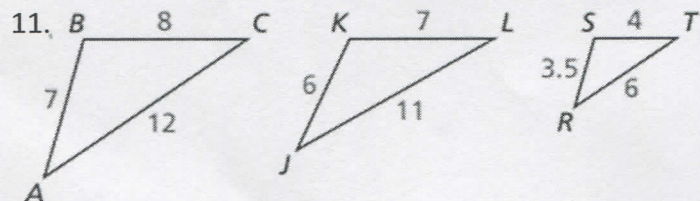
8. $CF = 12$

9. $DE = 21$

10. $\triangle CAG \sim \triangle CEF$

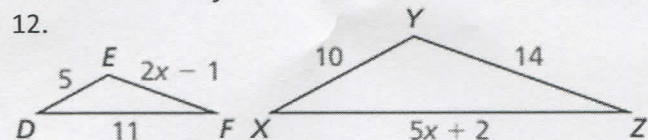


Determine whether $\triangle JKL$ or $\triangle RST$ is similar to $\triangle ABC$.

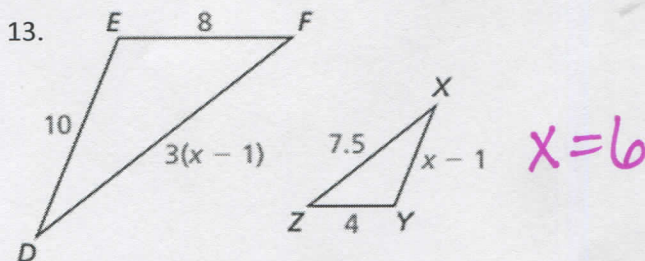


$\triangle RST$

Find the value of x that makes $\triangle DEF \sim \triangle XYZ$.

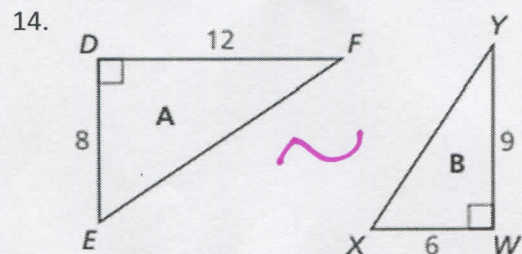


$x = 4$

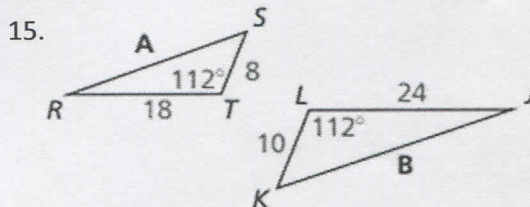


$x = 6$

Determine whether the two triangles are similar. If they are similar, write a similarity statement and find the scale factor of triangle B to triangle A.



$\triangle DEF \sim \triangle XWY$
 $\frac{4}{3}$



not \sim

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the

● ● ● ● ● ● ●

1	2	3	4	5	6	7	8
Basic		Intermediate			Advanced		Solved ALL!

