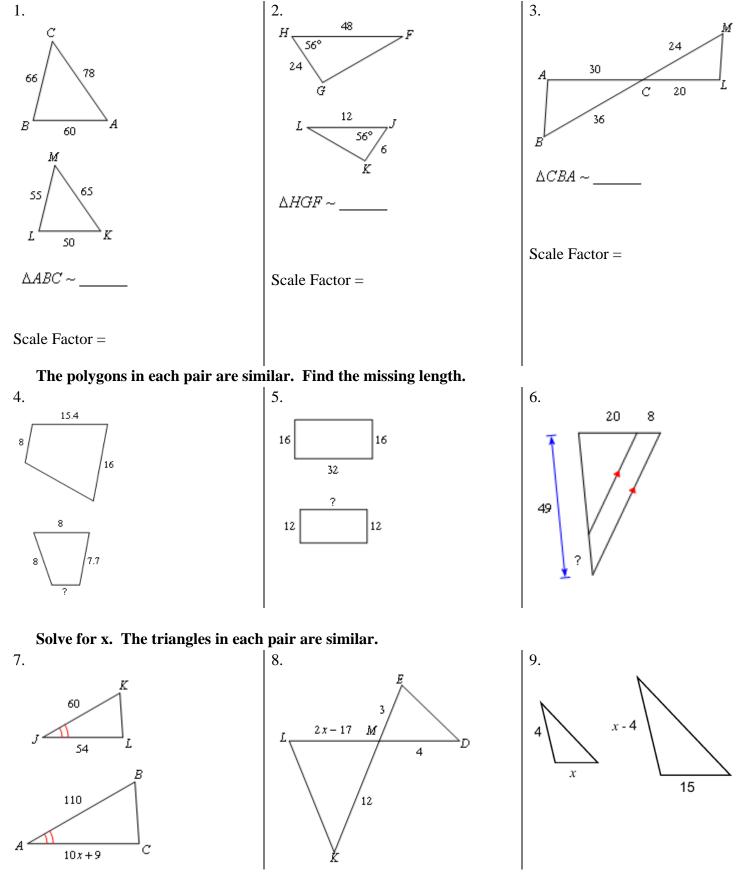
UNIT 6 CORRECTIVE ASSIGNMENT

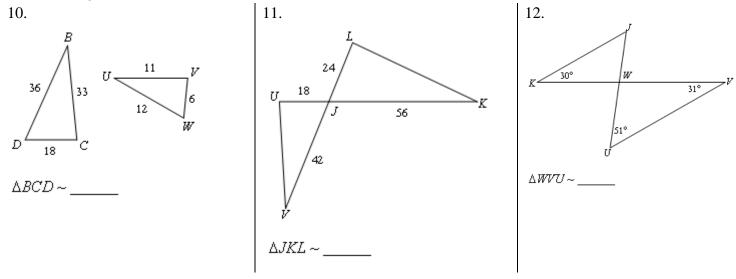
Similarity

DATE:_____

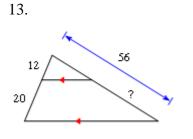
The following triangles are similar. Fill in the blank (order is important!). Find the scale factor.

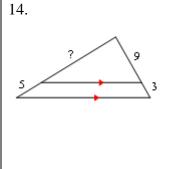


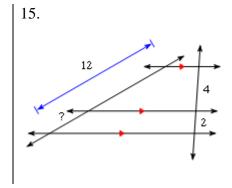
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.





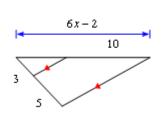


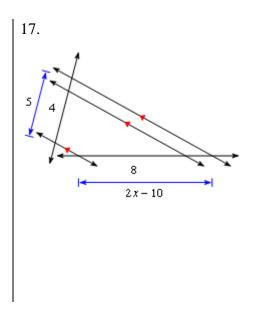


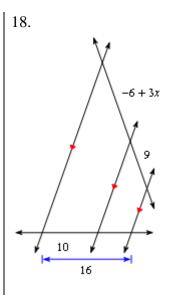


Solve for *x*.

16.





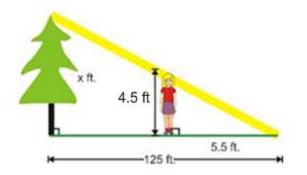


APPLICATIONS

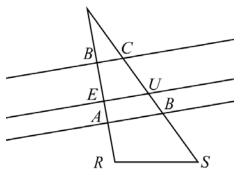
19. Bob is 6 foot tall and stands 9 feet from a mirror to find the height of the building. If the mirror is 22 feet from the building, how tall is the building?



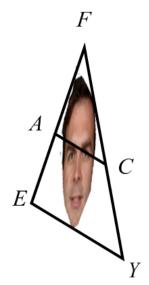
20. Sally uses her shadow to find the height of a tree. How tall is the tree?



21. A bear slices through a paper triangle with 3 perfect parallel claws so that $\overrightarrow{BC} \parallel \overleftarrow{EU} \parallel \overleftarrow{AB}$. Given BE = 8, BA = 12, UB = 3.75, then find *CB*.



22. Mr. Kelly's head can be intercepted by parallel line segments \overline{AC} and \overline{EY} . Given FA = 2x + 1, FC = 12, AE = 9, CY = 10. Find x and FA.



ANSWERS TO UNIT 6 REVIEW CORRECTIVE ASSIGNMENT

1) similar; SSS similarity; I	∆ <i>KLM</i> 2) similar; SAS	similarity; ∆ <i>JKL</i>	 similar; SAS similarity; ∆CML
4) 4	5) 24	6) 14	7) 9
8) 13 9) x=10 or -6 (-6 doesn't work)		 similar; SSS similarity; ∆UVW 	
 similar; SAS similarity; ΔJVU 12) not similar 		13) 35	
14) 15	15) 4	16) 3	17) 10
18) 7			

APPLICATIONS

19. 14.66 ft

20. 102.27 ft

21. 11.25

22. x = 4.9 and FA = 10.8