Uni	it 7 Review	Period Name	
Sho 1.	ow work for each of Two supplementary c of 4:11. Find the me	e following. Iles are in the ratio 2. The vertex angle of an isosceles triangle i ure of each angle. three times as large as the base angles. Fi the measure of all three angles.	s nd
Fin 3.	d the value of x. $\frac{3}{5} = \frac{x}{4}$	4. $\frac{x+5}{4} = \frac{2}{3}$ 5. $\frac{9}{4x+6} = \frac{7}{6x-4}$	
6.	Which proportions $\begin{bmatrix} A \end{bmatrix} \frac{x}{3} = \frac{12}{4}$ $\begin{bmatrix} E \end{bmatrix} \frac{x}{4} = \frac{3}{12}$	The equivalent to $\frac{x}{12} = \frac{3}{4}$? [B] $\frac{x}{4} = \frac{12}{3}$ [C] $\frac{12}{x} = \frac{4}{3}$ [D] $\frac{x+12}{12} = \frac{7}{4}$ [F] $\frac{x+3}{16} = \frac{3}{4}$ [G] $\frac{3}{x} = \frac{4}{12}$ [H] $\frac{3}{12} = \frac{4}{x}$	
Ind	questions 7-11, ABC	• WXYZ	
7.	What is the scale f	tor of ABCD to WXYZ? $7 70^{\circ}$	
8. 10.	Find mÐA Find YZ	9. Find $m \ominus B$ 11. Find AD $W = \frac{12}{12} Z$	

12. Two similar polygons are shown.Find the value of each variable using proportions.

Scale Factor	×	У	z
Proportion & Work			
Value			



State each of the following. Draw and label a diagram to illustrate each.

13. Postulate for14. Theorem #1 for15. Theorem #2 forSimilar TrianglesSimilar TrianglesSimilar Triangles

Can the two triangles shown be proved similar? If so, name the two triangles using a similarity statement and tell which similarity postulate or theorem you would use.



Determine the scale factor and find the value of each variable using proportions.



18.	Proportion & Work	Value
×		
у		



19.	Proportion & Work	Value
x		
у		

Find the value of x using a proportion.





21.	Proportion & Work	Value
×		