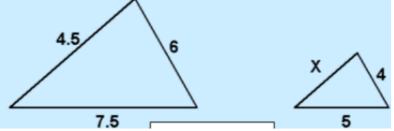


Ex 2: The two triangles below are known to be similar, determine the missing value of x.

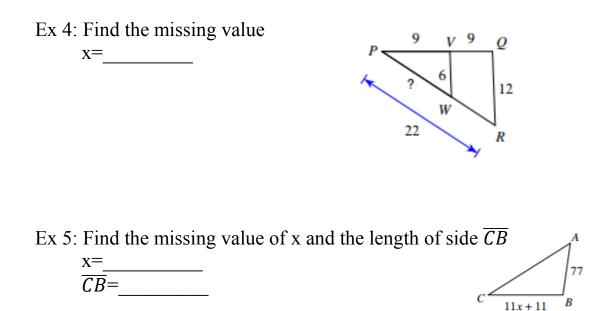


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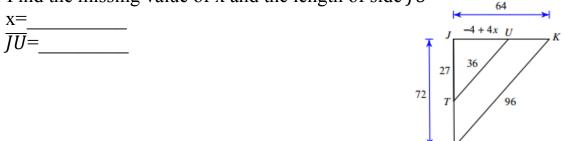
в

Ex 3: Given that $\Delta JHK \sim \Delta POM$, $\angle H = 90^\circ$, $\angle J = 40^\circ$, $\angle M = x + 5$, and $\angle O = y$, find the value of x and y.





Ex 6: Find the missing value of x and the length of side \overline{JU}



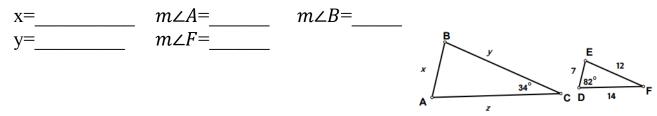
D

30

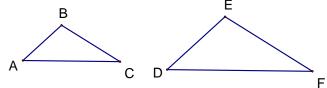
E 21

L

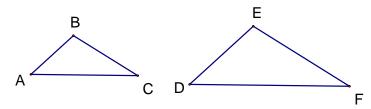
Ex 7: Find the missing value of x and the length of side \overline{CB} , \overline{AB} , $m \angle A$, $m \angle F$, and $m \angle B$



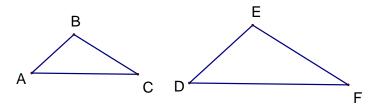
I. AA Similarity (Angle-Angle) If ______ angles of one triangle are congruent to _______ angles of another triangle, then the triangles are ______.
B
E



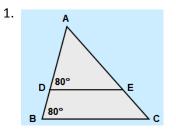
II. **SSS Similarity (Side-Side)** If the measures of the corresponding ______ of 2 triangles are proportional, then the triangles are ______.

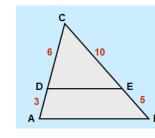


III. **SAS Similarity (Side-Angle-Side)** If the measures of ______ sides of a triangle are proportional to the measures of ______ corresponding sides of another triangle and the angles between them are congruent, then the triangles are ______.

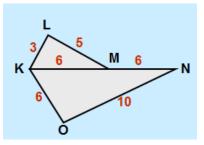


Show how the triangles are similar (if they are similar), state the reason and show all the values.



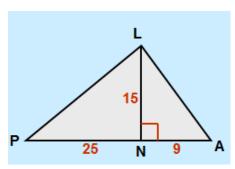








2.



<u>Unit 5-Lesson 8 Practice – Similar Triangles</u>

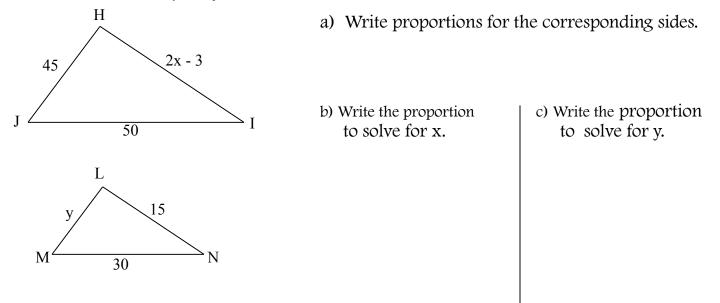
Solve each proportion by using cross-products.				
1. $\frac{9}{28} = \frac{x}{84}$	2. $\frac{3}{18} = \frac{4x}{7}$	3. $\frac{3}{b+16} = \frac{4}{48}$		
4. $\frac{5}{k+17} = \frac{8}{152}$	5. $\frac{x+5}{7} = \frac{x+5}{5}$	3		
Solve each proportion. (Circle) your final answer.				
1. $\frac{5}{6} = \frac{x}{9}$	2. $\frac{2}{8} = \frac{x}{20}$	3. $\frac{-8}{11} = \frac{12}{x}$		
4. $\frac{3}{x} = \frac{20}{-35}$	5. $\frac{x+3}{4} = \frac{7}{8}$	6. $\frac{x-6}{5} = \frac{7}{12}$		
7. $\frac{8}{9} = \frac{x-2}{6}$	8. $\frac{1}{x+5} = \frac{2}{3}$	9. $\frac{8}{x+10} = \frac{4}{2x-7}$		
10. $\frac{6}{x} = \frac{2}{5}$	11. $\frac{9}{4} = \frac{36}{z}$	12. $\frac{5}{3} = \frac{t+8}{18}$		

Do the following ratios form a proportion? Meaning, are they equal?

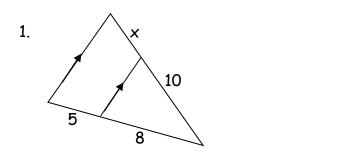
1. $\frac{2}{-}=\frac{16}{-}$	2. $\frac{9}{10} = \frac{10}{10}$	3. $\frac{7}{2} = \frac{21}{2}$	4. $\frac{8}{3} = \frac{24}{3}$
1. $\frac{-}{3} = \frac{-}{24}$	2. $\frac{-}{5} = \frac{-}{18}$	3. $\frac{-}{4} = \frac{-}{14}$	4. $\frac{-}{7} = \frac{-}{21}$

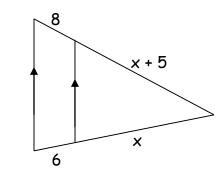
SIMILAR FIGURES:

Find the values of x and y if $\Delta JHI \sim \Delta MLN$.



Write and solve proportions to solve for each variable.





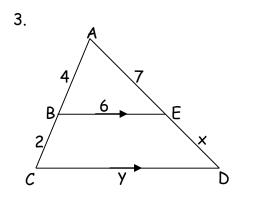
F

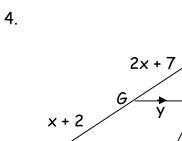
14

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6

J





40

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2.

