

Practice Quiz: Proportions #1

© 2014 Kuta Software LLC. All rights reserved.

Solve each proportion.

Date _____ Period _____

1) $\frac{4}{m} = \frac{3}{2}$

2) $\frac{9}{n} = \frac{10}{5}$

3) $\frac{5}{8} = \frac{p}{10}$

4) $\frac{3}{6} = \frac{4}{x}$

5) $\frac{10}{r-10} = \frac{8}{6}$

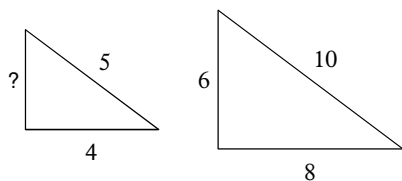
6) $\frac{6}{4} = \frac{2}{b-8}$

7) $\frac{6}{n-4} = \frac{9}{8}$

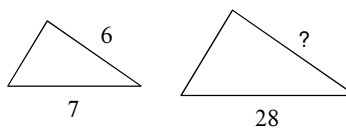
8) $\frac{5}{4} = \frac{x+7}{2}$

The polygons in each pair are similar. Find the missing side length.

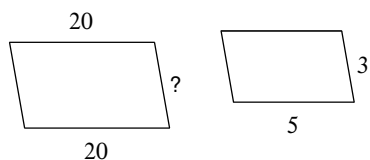
9)



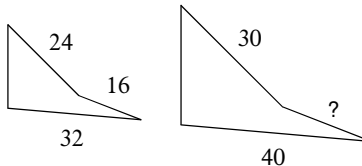
10)



11)

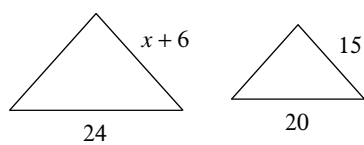


12)

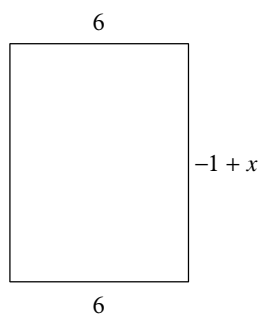
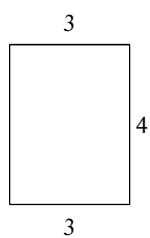


Solve for x . The polygons in each pair are similar.

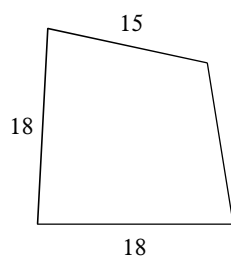
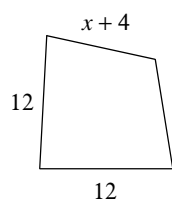
13)



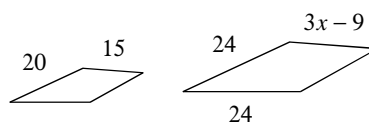
14)



15)

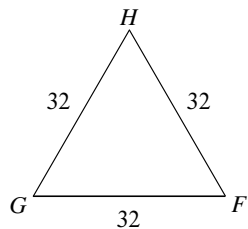
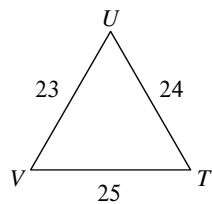


16)



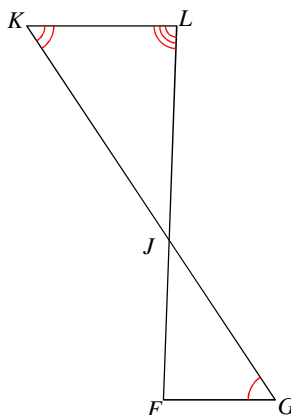
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

17)



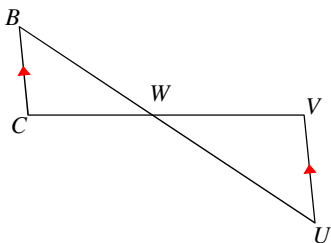
$\triangle HGF \sim$ _____

18)



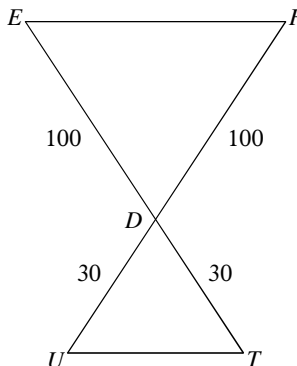
$\triangle JKL \sim$ _____

19)



$\triangle WVU \sim$ _____

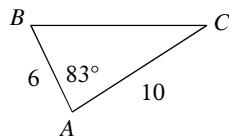
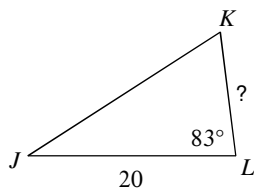
20)



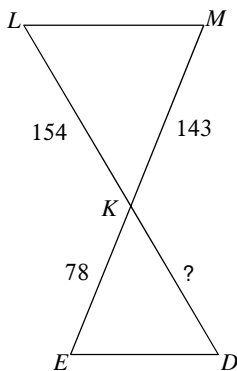
$\triangle DEF \sim$ _____

Find the missing length. The triangles in each pair are similar.

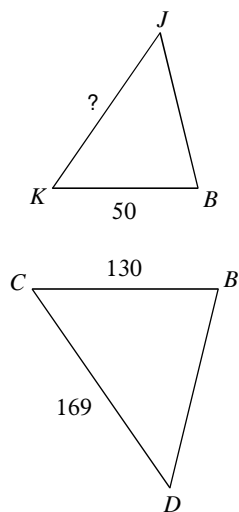
21)



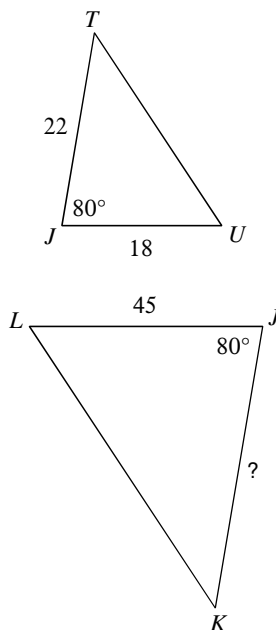
22)



23)

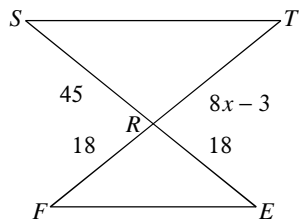


24)

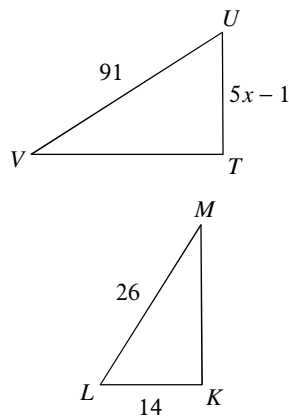


Solve for x . The triangles in each pair are similar.

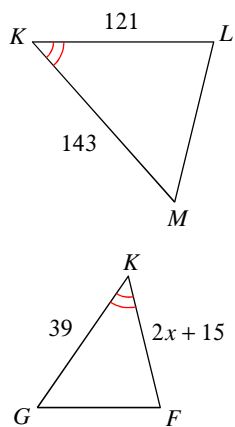
25)



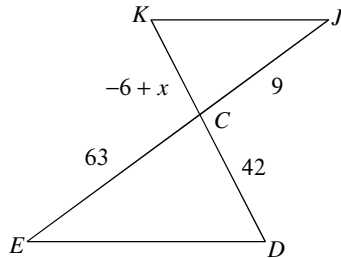
26)



27)



28)



Answers to Practice Quiz: Proportions #1

- | | | | |
|--|-----------------|---|---------------|
| 1) $\{2.66\}$ | 2) $\{4.5\}$ | 3) $\{6.25\}$ | 4) $\{8\}$ |
| 5) $\{17.5\}$ | 6) $\{9.33\}$ | 7) $\{9.33\}$ | 8) $\{-4.5\}$ |
| 9) 3 | 10) 24 | 11) 12 | 12) 20 |
| 13) 12 | 14) 9 | 15) 6 | 16) 9 |
| 17) not similar | 18) not similar | 19) similar; AA similarity; $\triangle WCB$ | |
| 20) similar; SAS similarity; $\triangle DTU$ | | 21) 12 | 22) 84 |
| 23) 65 | 24) 55 | 25) 6 | 26) 10 |
| 27) 9 | 28) 12 | | |