

Proportions and Similarity

Solve each proportion.

1)  $\frac{9}{p} = \frac{5}{3}$   
 {5.4}

3)  $\frac{10}{4} = \frac{n}{10}$   
 {25}

5)  $\frac{5}{3} = \frac{x+10}{10}$   
 {6.67}

7)  $\frac{9}{n-4} = \frac{8}{10}$   
 {15.25}

9)  $\frac{x+7}{x} = \frac{10}{6}$   
 {10.5}

11)  $\frac{m}{m+2} = \frac{8}{2}$   
 {-2.67}

2)  $\frac{5}{3} = \frac{6}{p}$   
 {3.6}

4)  $\frac{10}{7} = \frac{x}{8}$   
 {11.43}

6)  $\frac{3}{9} = \frac{p-10}{6}$   
 {12}

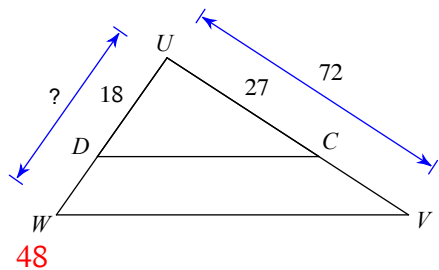
8)  $\frac{4}{3} = \frac{m+10}{7}$   
 {-0.67}

10)  $\frac{2}{5} = \frac{x+5}{7x}$   
 {2.78}

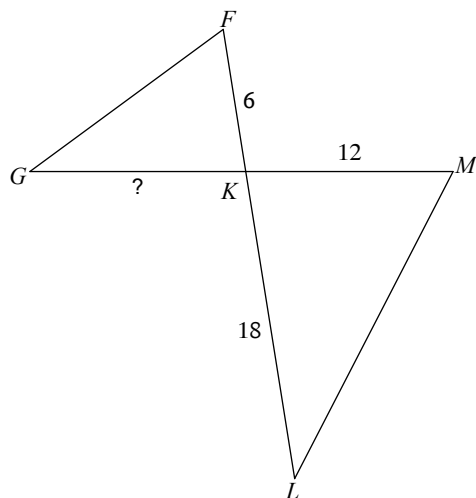
12)  $\frac{n}{5} = \frac{n-8}{3}$   
 {20}

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

13)

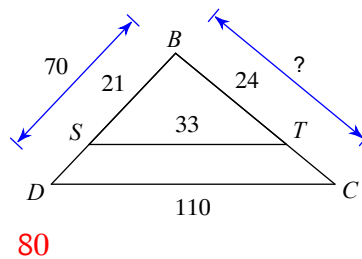


15)  $\triangle KLM \sim \triangle KGF$



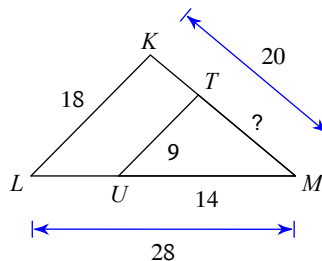
9

14)



80

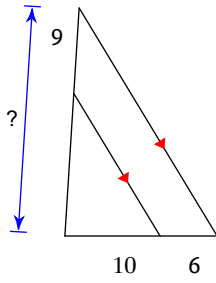
16)



10

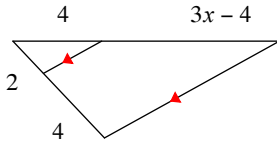
Find the missing length indicated.

17) 24



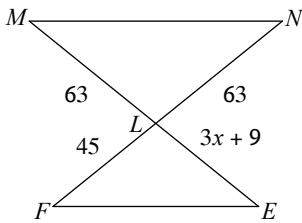
Solve for  $x$ .

18) 4

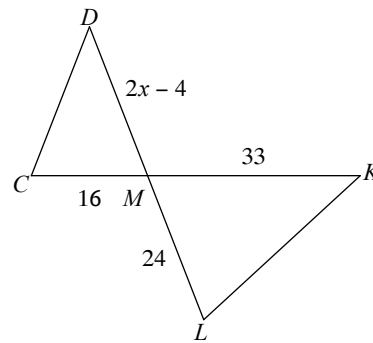


Solve for  $x$ . The triangles in each pair are similar.

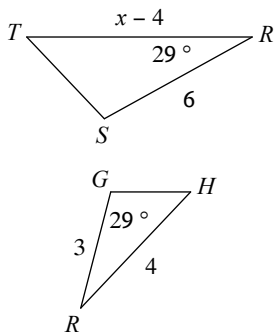
19)  $\triangle LMN \sim \triangle LEF$  12



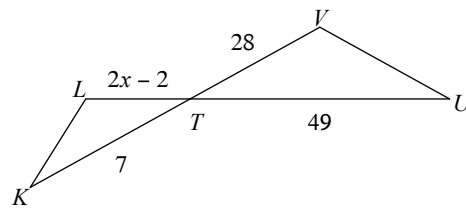
20)  $\triangle MLK \sim \triangle MCD$  13



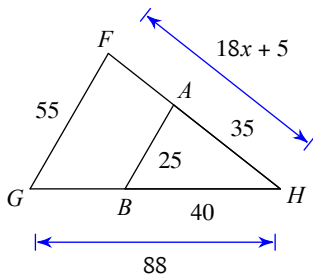
21)  $\triangle RST \sim \triangle RGH$  12



22)  $\triangle TUV \sim \triangle TKL$  3



23) 4



24)  $\triangle PQR \sim \triangle PVW$  11

