Geometry Name_____

3-1 Ratios and Similar Figures

Date_____ Period____

Solve each proportion.

1) $\frac{8}{10} = \frac{2}{n}$

2) $\frac{8}{n} = \frac{5}{10}$

3) $\frac{x+1}{4} = \frac{6}{8}$

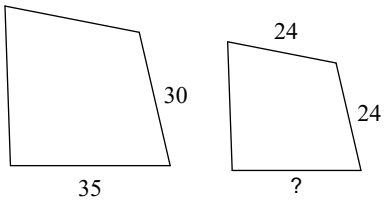
4) $\frac{3}{9} = \frac{8}{n-10}$

5) $\frac{v}{4} = \frac{v-4}{3}$

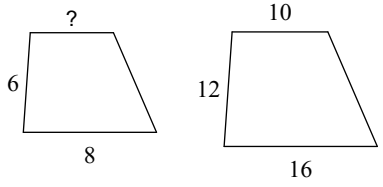
6) $\frac{p-6}{p-4} = \frac{7}{2}$

Find the missing length. The triangles or polygons in each pair are similar. USE THE SIMILARITY STATEMENT if given.

7)



8)



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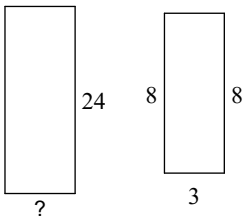
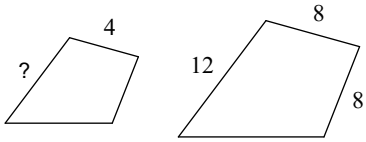
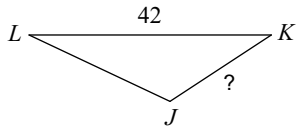
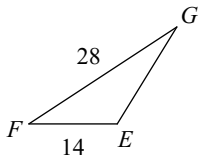


10)

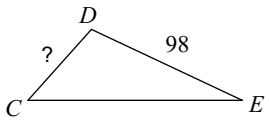


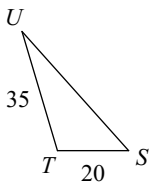
11) $\triangle JKL \sim \triangle EFG$



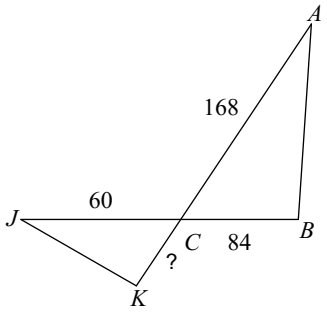


12) $\triangle CDE \sim \triangle STU$

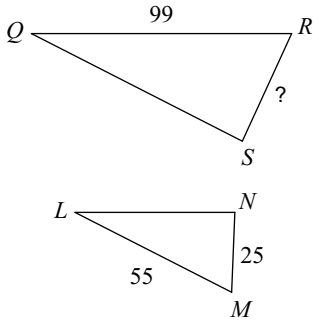




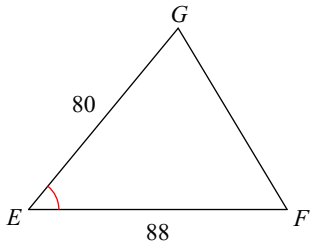
13) $\triangle CBA \sim \triangle CKJ$

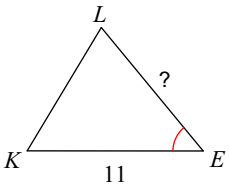


14) $\triangle SRQ \sim \triangle NML$

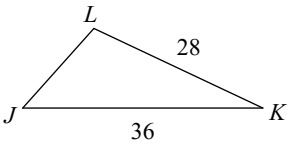


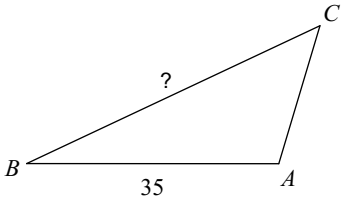
15) $\triangle EFG \sim \triangle EKL$



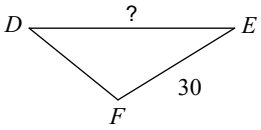


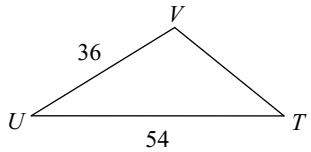
16) $\triangle ABC \sim \triangle LKJ$



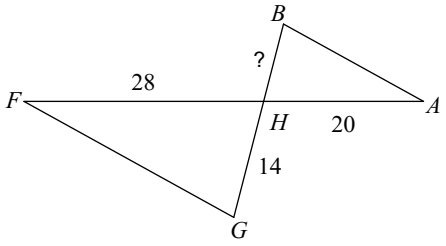


17) $\triangle TUV \sim \triangle DEF$



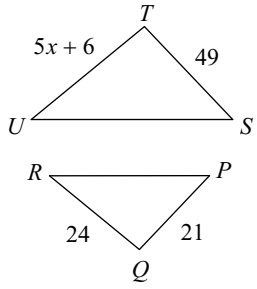


18) $\triangle HGF \sim \triangle HBA$



Solve for *x*. The triangles or polygons in each pair are similar.

19) $\triangle STU \sim \triangle PQR$



20) $\triangle ABC \sim \triangle AQR$