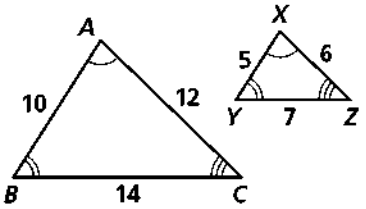
Name _____ Class _____ Date _____

Practice 7-2

Similar Polygons

Are the polygons similar? If they are, write a similarity statement, and give the similarity ratio. If they are not, explain.

1.



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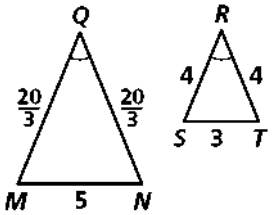

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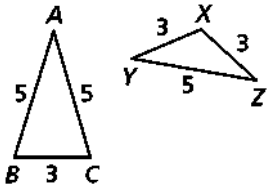

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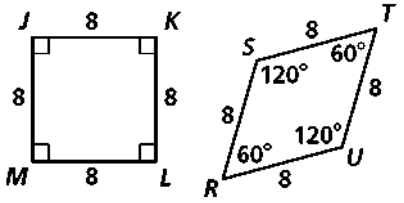

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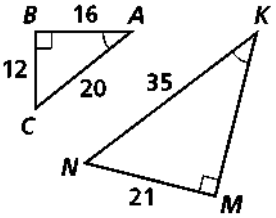

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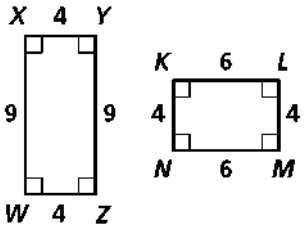
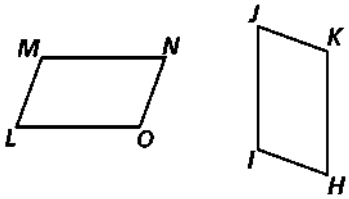


LMNO ~ *HIJK*. **Complete the proportions and congruence statements.**

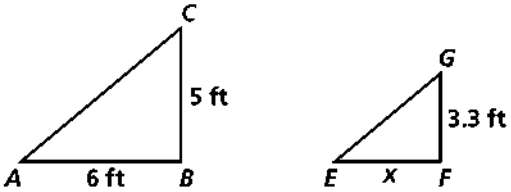


7. $\angle M \cong ?$ **8.** $\angle K \cong ?$ **9.** $\angle N \cong ?$

10. $\frac{MN}{IJ} = \frac{?}{JK}$ **11.** $\frac{HK}{?} = \frac{HI}{LM}$ **12.** $\frac{IJ}{MN} = \frac{HK}{?}$

Algebra **The polygons are similar. Find the values of the variables.**

13.



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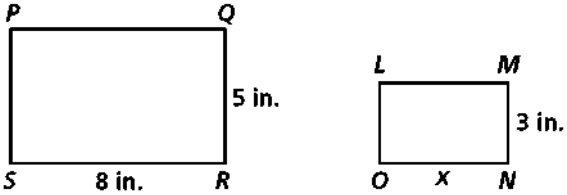

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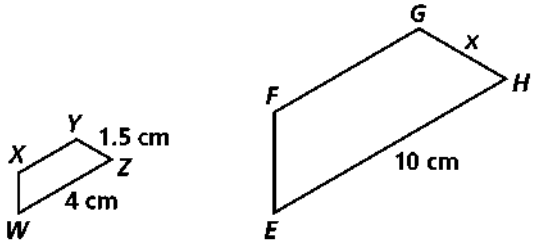

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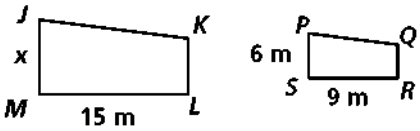
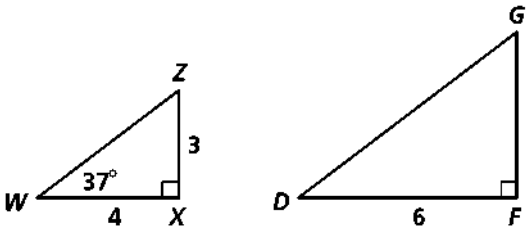


$\triangle WXZ \sim \triangle DFG$. **Use the diagram to find the following.**

17. the similarity ratio of $\triangle WXZ$ and $\triangle DFG$

18. $m\angle Z$ **19.** DG **20.** GF

21. $m\angle G$ **22.** $m\angle D$ **23.** WZ



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