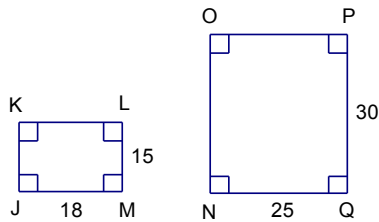


Honors Geometry- Section 8.1-8.3 Review

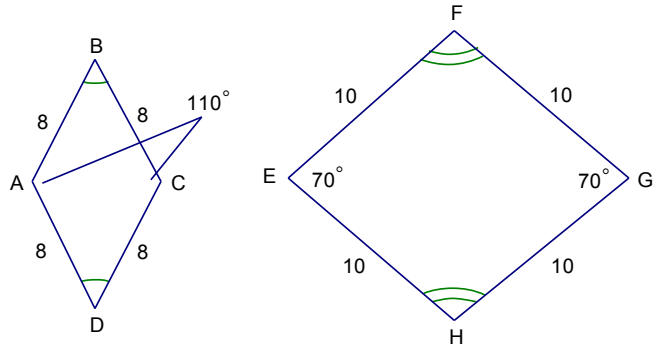
Name: _____ Class Period: _____ Date: _____

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

1.

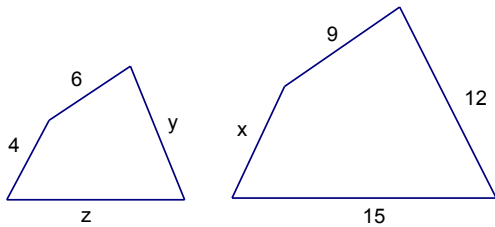


2.

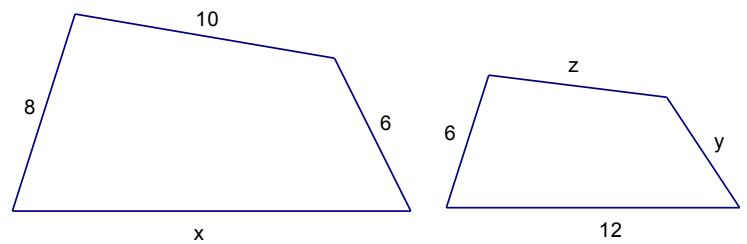


The polygons are similar. Find the values of the variables.

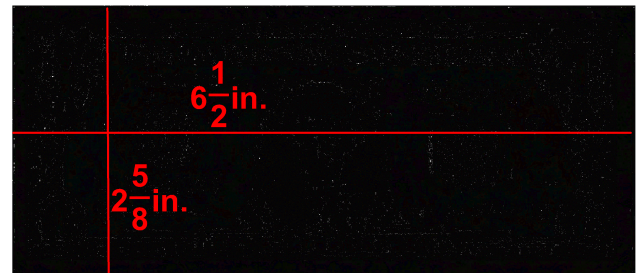
3.



4.



5. From 1861 to 1928, the dollar bill measures $7\frac{7}{16}$ in. by $3\frac{1}{8}$ in. The dimensions of the current dollar bill are shown at the right. Are the two dollar bills similar rectangles? Explain.



Find the geometric mean of each pair of numbers. If the answer is not a whole number, leave it in simplest radical form.

6. 10, 15

7. 4, 9

8. 6, 12

Solve each proportion for x.

9. $\frac{x}{4} = \frac{6}{12}$

10. $\frac{4}{3-x} = \frac{2}{5}$

11. $\frac{4}{3x} = \frac{x}{x+2}$

12)

Given: $\frac{GJ}{HK} = \frac{GK}{GM}$

$\angle 1 \cong \angle G$

Conclusion: $\overleftrightarrow{HM} \parallel \overleftrightarrow{JK}$

