

Name :

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# HOMEWORK 6.3

Secondary Math II

Solve each proportion. Show your work and check your solution.

1.  $\frac{3}{4} = \frac{x}{20}$

2.  $\frac{x}{7} = \frac{18}{21}$

3.  $\frac{9}{c} = \frac{6}{10}$

4.  $\frac{3}{6} = \frac{8}{x}$

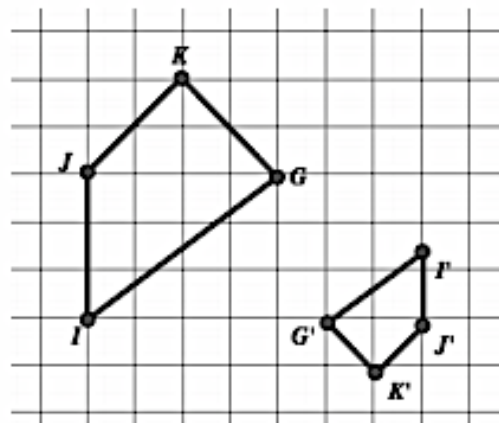
5.  $\frac{a}{2} = \frac{13}{20}$

6.  $\frac{3}{4} = \frac{b+3}{20}$

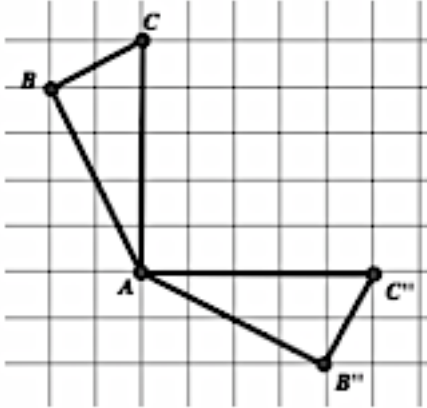
Determine if the statement is true or false. Explain your reasoning and give a counterexample if false.

7. All triangles are similar.

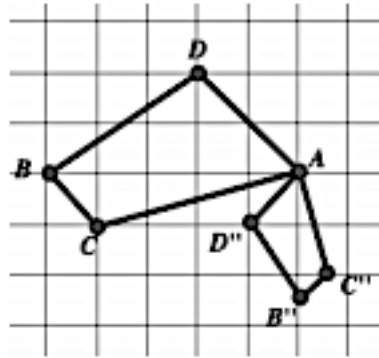
8. The polygons on the grid below are similar.



9. Determine what type of transformation(s) has been performed. Explain how you made your decision.



10. Determine what type of transformation(s) has been performed. Explain how you made your decision.



Answers:

1.  $x = 15$

2.  $x = 6$

4.  $x = 16$

6.  $b = 12$

7. *False, explain*

8. *True, explain*

9. *Reflection, explain*