

Creating Problems

Content Standard:

- Identify characteristics of similar figures.
- Apply methods to prove triangles similar.

Process Standards:

- Collaborate with partners/small groups.
- Explain thought processes when solving a problem.
- Self-reflect on their work.

Task:

You are in charge of creating practice problems for our review game for the test. You will be working with one partner and will create two Geometry problems in which you need to use Algebra to solve. These problems should cover everything we learned about similar figures. You will also create a geometric proof that must be proved in at least **four** steps. Your proof must involve proving triangles similar. (Feel free to make longer proofs!) You need to include solutions to your problems on a separate sheet of paper. Make sure your solutions are correct! These should resemble questions that you have done for homework or have done in your notes.

Criteria:

- Students create two well written and thought out algebraic questions with Honors Geometry difficulty
- Students create a proof that requires at least four steps
- Students correctly solve the problems they create

Rubric

Criteria	Poor	Good	Excellent
Algebraic questions on similar figures	Questions not thought out or do not use similar figures (0 - 1 pts)	Minor errors in questions/need to use more similarity (2 - 3 pts)	Good questions and cover a wide range of similar figures (4 - 5 pts)
Geometric proof on similar triangles	Did not come up with a complete proof (0 - 1 pts)	Proof doesn't have at least 4 steps or error in proof (2 - 3 pts)	Well written proof with at least 4 steps (4 - 5 pts)
Problem solutions	0 or 1 solution correct (0 - 1 pts)	2 solutions correct (2 pts)	All solutions correct (3 pts)

Total _____/13