

Chapter 8 Test Prep

1. Solve a given proportion
2. Use ratios to solve for unknowns (similar to HW #8-1 problems with “Did the Farmer...?”)
3. Use similarity ratios with scale models to find missing lengths
5. Use similar figures to solve for unknown angles/side lengths
 - i. Similar figures have congruent corresponding angles
 - ii. Similar figures have corresponding sides that are equal in ratio
 - iii. Apply the following Theorems...
 1. Triangle Proportionality Theorem
 2. Triangle Angle Bisector Theorem
 3. Three Parallel Lines Theorem
 - iv. Problems similar to HW #8-11 problem #4 and #10
6. Always/Sometimes/Never
7. Given a right triangle with the altitude drawn to the hypotenuse, write a similarity statement with the three triangles.
8. Apply the Geometric Mean (Altitude) Theorem
9. Apply the Geometric Mean (Leg) Theorem
10. Given two numbers, find the geometric mean of the numbers.
11. Write a two-column proof using similar triangles. (AA~)