

Chapter 8 Test Prep

1. Given two similar figures, find and use the scale factor to solve for an unknown side length.
2. Given two similar figures and its similarity statement, use the side lengths to find the perimeter ratio AND the area ratio.
3. Given two figures, use the side lengths and angle measures to determine whether the two figures are similar.
4. Given two similar figures and their areas, find the scale factor. Then use the scale factor to find the length of their sides.
5. Scale models...use the scale factor (i.e. 0.5 cm on the paper = 3 feet in “real life”) to solve for unknown measures and/or distances
6. Use the Triangle Proportionality Theorem and its Converse to set up a proportion and solve for unknown lengths
7. Use the Triangle Angle Bisector Theorem to set up a proportion and solve for unknown lengths
8. Use the Three Parallel Lines Theorem to set up a proportion and solve for unknown lengths
9. Write two two-column proofs → prove two triangles are similar by $AA\sim$, $SAS\sim$, or $SSS\sim$