Algebra I Class Work 3.3

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions: You may use your book, notes, calculator, friends, and teacher. However you may not copy someone else work verbatim. **Show all your work.** If you are not finished at the end of class, write “NEED MORE TIME” at the top and turn your paper in – **you may not take it home.** You have one week to finish it.

1. If $∆ABC∼∆XYZ $with *AB =* 11, *BC =* 14, and *XY =* 8 units, find *YZ.*
2. If the ratio of side lengths between two similar triangles is 3:5, what are the ratios of their areas and perimeters?
3. If a blue print has a scale of 1 cm = 4 ft., how many centimeters are needed for a 75 ft. pole?