

Geometry Study Guide Chapter 7 Similarity

7-1 Ratios and Proportions

1. What is a ratio? What is an extended ratio?
2. What is a proportion? What are the means? What are the extremes?
3. Do you understand how to cross-multiply? How to use the distributive property?
4. Can you do conversions? For instances, feet to inches?
5. Do you understand Problem 1, 2, 3, 4, 5?
6. Do you understand how to do these problems? p436; #9, 13, 15, 17, 23, 25, 27, 29, 32, 33, 35, 47

7-2 Similar Polygons

1. What does similar mean? Compare and contrast Similar with Congruent. What is a real-world example of 2 objects that are similar?
2. What is true about angle measurements in 2 similar polygons?
3. What is true about length measurements in 2 similar polygons?
4. What is an extended proportion? How do you use or apply it with similar polygons?
5. What is scale factor? How do you use or apply it with similar polygons?
6. Do you understand Problem 1, 2, 3, 4, 5?
9. Do you understand how to do these problems? p444; #9, 13, 15, 19, 23, 30, 37, 43-46

7-3 Proving Triangles Similar

1. What does this symbol (\sim) mean?
2. What does the AA \sim Postulate mean?
3. What does the SAS \sim Theorem mean?
4. What does the SSS \sim Theorem mean?
5. Do you understand Problem 1, 2, 3, 4?
6. Do you understand how to do these problems? p455; #7, 9, 12, 15, 17

7-4 Similarity in Right Triangles

1. What is a right triangle? Which sides are the legs? Which side is the hypotenuse?
2. What is an altitude? What is an altitude to the hypotenuse? What are the segments of a hypotenuse? Describe which segments of a hypotenuse are adjacent to the 2 legs.
3. What is geometric mean? Give an example using numbers and a variable in a proportion.
4. What is the geometric mean of 2 and 8? Of 3 and 27? Of 4 and 8?
5. What is true about the 2 triangles which get created when you draw an altitude to the hypotenuse?
6. Do you understand Problem 1, 2, 3?
7. Do you understand how to do these problems? p464; #1, 3, 5, 7, 18-21

Algebra Review -- Solving Quadratic Equations

Do you understand how to use the Quadratic Formula? p439

End-of-Chapter Review

Do you understand how to do these problems? p481; #6, 7, 9, 12, 13, 14, 15, 17, 19, 23, 25, 27

REVIEW: Chapter Review p480-482; Vocabulary; Notes; Homework; Classwork; Quizzes