



Stuff to know for the Chapter 7/8 Test

Topics

1. Names of polygons (triangle, quadrilateral, pentagon, etc...)
2. How to find the sum of the interior angles of an n -sided polygon
3. How to find the sum of the exterior angles of an n -sided polygon
4. How to find the number of diagonals for an n -sided polygon
5. What a *regular polygon* is and how to find the measure of one interior or exterior angle of a regular polygon
6. The definition of *ratio* and *proportion*
7. The means-extremes products theorem
8. The means-extremes ratio theorem
9. How to find the arithmetic and geometric mean of two numbers
10. How to find the n th proportional of three numbers where n is 1, 2, 3, or 4
11. The definition of *similar polygons*
12. Theorem 61 (the ratio of the perimeters of two similar polygons equals the ratio of any pair of corresponding sides)
13. Methods of proving triangles similar (AA~, SAS~, SSS~)
14. The Side-Splitter Theorem
15. The Side-Splitter Theorem applied to parallel lines (Theorem 66)
16. The Angle Bisector Theorem

Types of Problems

- Proofs
- Lots of sum of interior angles, sum of exterior angles, finding the measure of interior angle given the others, etc.
- Diagrams of triangles, parallel lines with some givens - need to find other lengths, angle, etc. using various techniques (including proportions)