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What to know for the Chapter 11 Test

Definitions
- Median of a trapezoid
- Apothem of a regular polygon
- Radius of a regular polygon
- Sector of a circle
- Segment of a circle
- Annulus

Postulates
- Area of a rectangle
- Congruent shapes have congruent areas
- Area of the union of polygons is the same as the sum of their individual areas
- Area of a circle
- Circumference of a circle

Theorems
- Area of a parallelogram (Theorem 98)
- Area of a triangle (Theorem 99)
- Area of a trapezoid (Theorem 100)
- The length of a median of a trapezoid (Theorem 101)
- Area of a trapezoid using the Median (Theorem 102)
- Area of a kite (Theorem 103)
- Area of a regular triangle (Theorem 104)
- Area of a regular polygon (Theorem 105)
- Area of a sector of a circle (Theorem 106)
- Area of a segment of a circle
- Area of an annulus
- Similar Figures Theorem (Theorem 107)
- Median areas theorem (Theorem 108)
- Hero's Formula (Theorem 109)
- Brahmagupta's Formula (Theorem 110)

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Problem Types

- Finding areas (parallelogram, triangle, trapezoid, kite, regular polygons, sector, segment, annulus)
- Finding side, part (e.g., altitude, median, etc.) lengths based on a given area
- Finding the ratio of areas of polygons
- Finding the ratio of areas of similar polygons
- Finding the area of triangles using Hero's Formula
- Finding the area of cyclic quadrilaterals using Brahmagupta's Formula