

Chapter 11 Guided Notes Measuring Length & Area

Chapter Start	Date:
Chapter End	Date:
Test Day	/Date:

11.1 Areas of Triangles and Parallelograms

Term	Definition	Example
area		
perimeter		
Postulate 24 Area of a		
Square Postulate Postulate 25 Area Congruence		
Postulate Postulate 26 Area Addition		
Postulate Theorem 11.1		
Area of a Rectangle		
base of a parallelogram		
height of a parallelogram		
Theorem 11.2 Area of a Parallelogram		
Theorem 11.3 Area of a Triangle		
height of a triangle		

11.2 Areas of Trapezoids, Rhombuses, and Kites

Term	Definition	Example
height of a		
trapezoid		
Theorem 11.4		
Area of a		
Trapezoid		
Theorem 11.5		
Area of a		
Rhombus		
Theorem 11.6		
Area of a		
Kite		

Summary of Area Formulas		
Square		
Rectangle		
Parallelogram		
Triangle		
Triangle (with trig)		
Equilateral △		
Hero/Heron's Form		
Brahmagupta's Form.		
Trapezoid		
Trapezoid		
Rhombus		
Kite		
Circle		

Chapter 11 Extension: Hero and Brahmagupta

Term	Definition	E×ample
Semi-perimter		
Hero's (Heron's) Formula		
Inscribe Quadrilaterl		
Brahmapugta's Formula		

11.3 Perimeter and Area of Similar Figures

Term	Definition	E×ample
Theorem 11.7 Areas of Similar Polygons		
regular polygons		
circles		

11.4 Circumference and Arc Length

Term	Definition Definition	Example
circumference		
Theorem 11.8 Circumference of a Circle		
arc length		
Arc Length Corollary		
Segment of a Circle		

11.5 Areas of Circles and Sectors

Term	Definition	Example
Theorem 11.9 Area of a Circle		
sector of a circle		
Theorem 11.10 Area of a Sector		

11.6 Areas of Regular Polygons

Term	Definition	Example
center of the polygon		
radius of the polygon		
apothem of the polygon		
central angle of a regular polygon		
Theorem 11.11 Area of a Regular Polygon		
To find the area of a Regular Polygon you can also		

11.7 Use Geometric Probability

Term	Definition	Example
probability		
geometric probability		
Probability and Length		
Probability and Area		