

Chapter 7 Test Prep

1. Polygons
 - a. Name polygons by their sides
 - b. Tell whether a polygon is convex or concave
 - c. Tell whether a polygon is regular or not regular
 - d. Find sum of interior angles of a polygon
 - e. Use interior angle sum to determine number of sides the polygon has
 - f. Use interior sum to determine the measure of each interior angle in a regular polygon
 - g. Know any polygon's sum of exterior angles is 360° (regardless of whether the polygon is regular or not)
 - h. Find the measure of one exterior angle in a regular polygon
2. Parallelograms and Special Parallelograms (Rectangle, Rhombus, Square)
 - a. Use properties of parallelograms to find angle measures and side lengths
 - b. Use properties of special parallelograms to find angle measures and side lengths
 - c. Determine whether a quadrilateral with given information is a special quadrilateral (similar to performance task)
3. Kites
 - a. Use properties of kites to find angle measures
4. Trapezoids and Isosceles Trapezoids
 - a. Use properties of trapezoids and isosceles trapezoids to find angle measures
 - b. Use the Trapezoid Midsegment Theorem to find the length of one base or the midsegment
5. Always/Sometimes/Never with properties of ALL polygons/quadrilaterals discussed in the unit
 - a. i.e. "Is a square also a rectangle?" or "Is a parallelogram also a trapezoid?" or "Are the diagonals of a trapezoid perpendicular?" etc.
6. Write a coordinate proof.
 - a. Remember, for rectangles/rhombuses/squares, you not only have to show what the quadrilateral is, but you also have to show what it is not!
7. Write a two-column proof using quadrilaterals
 - a. You will need to know all properties of all quadrilaterals discussed in the unit
 - b. You may want to review...
 - i. Proving Δ s congruent and using CPCTC
 - ii. Angle relationships with parallel lines and transversals
 - iii. Properties of isosceles triangles (i.e. Base Angles Theorem and its converse)