Chapter 6 Review

Name Key

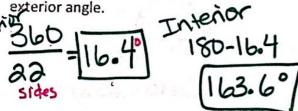
Use your Quadrilateral Flowchart, flashcards, and notes to help you.

- 1. Every square is a Rectangle and a Chombus
- 2. Every Rectangle and Rhombus is a parallelogram. (& square)
- 3. Every parallelogram, kite, and trapezoid is a quadrilateral.
- 4. All polygons that are convex have a sum of exterior angles equal to 360°
- 5. All convex polygons have a sum of interior angles equal to S = 180(n-2) (this is an equation)
- 6. The measure of an interior angle of a polygon is 135 degrees. How many sides What is the measure of an exterior angle? does the polygon have?

-135 45° each Exterior

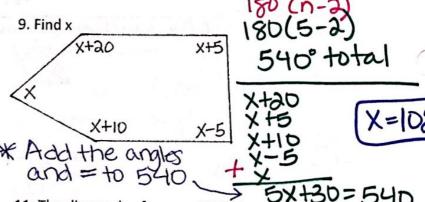
180

8. A regular, convex polygon has 22 sides.
What is the measure of 1 interior and 1



Name all the quadrilaterals that are Parallelograms.

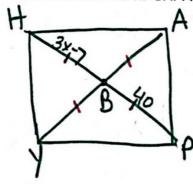




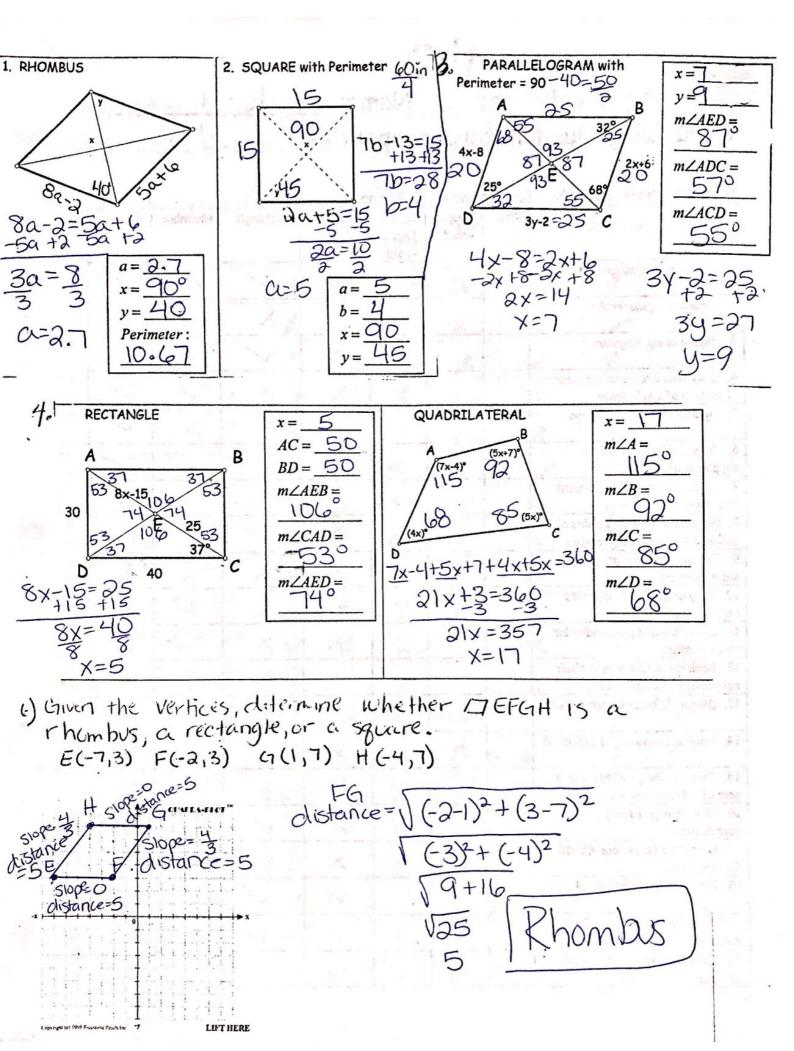
11. The diagonals of square HAPY intersect at point B.

If HB = 3x-7 and BP = 40 find x. Round to tenths place.

Find m<PAH. Find m<BAP. Find m<PBY.



m<PBY=90° m<BAP=45° m<PBY=90°



Geometry Worksheet Name: _____Organizing Quadrilateral properties

Fill in the chart. Put a \checkmark for yes and a \nearrow for no. Property . Trape Isos. P-gram Rectangle Rhombus Square -zoid Trape -zoid 1. Diagonals are congruent. X X X X 2. Figure is equilateral. X X X X X 3. Figure is equiangular. X × X × × 4. Diagonals are perpendicular × × X bisectors of each other. X 5. Figure is a regular polygon. X X X × × 6. Consecutive angles are × × X supplementary. 7. Diagonals form 4 congruent × X X X triangles. 8. Diagonals form two pairs of X X × congruent isosceles triangles. × × 9. Exactly one pair of opposite * * 4 X sides parallel. 10. Only one pair of opposite X X X X angles congruent. 11. Diagonals are perpendicular X X X to each other. 12. Both diagonals bisect their X X X ኦ X respective interior angles. 13. Diagonals bisect each other. X × 14. Only one diagonal is bisected. X X X X X 15. Only one diagonal bisects a × X X X X pair of interior angles. 16. Opposite sides are X X congruent. 17. Diagonals form four 45-45-X X 90 triangles. 18. Figure is a quadrilateral. 19. Interior angle sum is 360 degrees. 20. Exterior angle sum is 360 degrees.