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Graphic Organizer: Polygons with Focus on Quadrilaterals

1. The sum of the exterior angles of any convex polygon is _ degrees.

2. The sum of the interior angles of any triangle is _ degrees.

3. The sum of the interior angles of any quadrilateral is _ degrees.

4. The sum of the interior angles of any pentagon is _ degrees.

5. The sum of the interior angles of any hexagon is _ degrees.

6. The sum of the interior angles of any n–gon is _ degrees.

7. Which quadrilaterals have 4 congruent sides?

8. Which quadrilaterals have 4 congruent angles?

9. Which quadrilaterals have 2 pair of congruent sides, but not all sides congruent?

10. Which quadrilaterals have 2 pair of congruent angles, but not all angles congruent?

11. Which quadrilaterals have only 1 pair of congruent sides?

12. Which quadrilaterals have only 1 pair of congruent angles?

13. Which quadrilaterals have only 1 pair of parallel sides?

14. Which quadrilaterals have 2 pairs of parallel sides?

15. Which quadrilaterals have 4 right angles?

16. Which quadrilaterals have opposite angles congruent, but not all angles congruent?

17. Which quadrilaterals have one or more pairs of angles that are bisected by a diagonal?

18. Which quadrilaterals have one or more diagonals that are bisected by the other diagonal?

19. Which quadrilaterals have diagonals the intersect at right angles?

20. Which quadrilaterals have congruent diagonals?