$\qquad$
$\qquad$ Period: $\qquad$

## List all types of quadrilaterals with the given characteristics.

1. The quadrilateral has four right angles.
2. Exactly one pair of opposite sides of the quadrilateral is parallel.
3. Opposite angles of the quadrilateral are congruent.
4. The sum of the measures of the interior angles of the quadrilateral is $360^{\circ}$.
5. The diagonals of the quadrilateral are congruent.
6. The quadrilateral has four congruent sides.
7. Exactly two pairs of opposite sides of the quadrilateral is parallel.
8. Exactly two pairs of adjacent sides are congruent.
9. The sum of the measures of the exterior angles of the quadrilateral is $360^{\circ}$.
10. The diagonals of the quadrilateral do not bisect each other.
11. Consider all of the quadrilaterals you have studied in this chapter. Use the markings and/or measures to determine the most descriptive name for each quadrilateral below.


Tell whether the statement is true or false. If false, explain why.
12. A trapezoid is also a parallelogram.
14. Diagonals of a rectangle are perpendicular.
16. A square has diagonals that are perpendicular and congruent.
13. A square is also a rhombus.
15. A parallelogram has exactly one pair of opposite angles congruent.
17. All quadrilaterals have supplementary consecutive angles.

Determine whether the parallelogram is a rhombus, a rectangle, or a square. Give the most precise
description in each case. description in each case.
18. A parallelogram has perpendicular diagonals and angle measures of $45^{\circ}, 135^{\circ}, 45^{\circ}$, and $135^{\circ}$.
19. A parallelogram has perpendicular and congruent diagonals.
20. A parallelogram has congruent diagonals.

Consider the Ace of Diamonds playing card shown. The large diamond in the center of the playing card is a quadrilateral. Classify the quadrilateral based only on each piece of given information.
21. The diagonals of the quadrilateral bisect each other.
22. The four sides of the quadrilateral are congruent.
23. The four angles and the four sides of the quadrilateral are congruent.
24. The diagonals of the quadrilateral bisect the vertex angles.
25. The four angles of the quadrilateral are congruent.
26. The opposite sides of the quadrilateral are both congruent and parallel.
27. The opposite angles of the quadrilateral are congruent.
28. The diagonals of the quadrilateral are perpendicular to each other.
29. The diagonals of the quadrilateral are congruent.

