Properties of Quadrilaterals

Name: _____ Date: _____

Part A: True or False

Write **T** for true or **F** for false in the space provided.

1. _____ All squares are rectangles.
2. _____ All rectangles are squares.
3. _____ A rhombus has four equal sides.
4. _____ A parallelogram has two pairs of parallel sides.
5. _____ A trapezium has exactly one pair of parallel sides.
6. _____ The diagonals of a rectangle are always perpendicular.
7. _____ All angles in a square are 90°.
8. _____ A rhombus is a type of parallelogram.

Part B: Complete the Properties Table

Fill in the missing information about each quadrilateral.

Quadrilateral	Number of pairs of parallel sides	All sides equal?	All angles equal?
Square	_____	_____	_____
Rectangle	_____	_____	_____
Parallelogram	_____	_____	_____
Rhombus	_____	_____	_____
Trapezium	_____	_____	_____

Part C: Short Answer

1. What is the difference between a square and a rhombus?

_____

_____

2. Name two properties that a rectangle and a parallelogram have in common.

_____

_____

3. Why is a square considered a special type of rectangle?

_____

_____

Part D: Name the Quadrilateral

Based on the properties given, identify which quadrilateral is being described.

1. Four equal sides, opposite angles equal, diagonals bisect at right angles: _____

2. Opposite sides parallel and equal, all angles are 90°, diagonals are equal: _____

3. Only one pair of parallel sides: _____

4. Four equal sides and four equal angles (all 90°): _____