Classifying 2D Shapes

Name: _____ Date: _____ Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. An equilateral triangle has _____ lines of symmetry.
2. The diagonals of a rhombus cross at _____ angles.
3. A scalene triangle has _____ line(s) of symmetry.
4. An isosceles triangle has exactly _____ line(s) of symmetry.
5. A quadrilateral has _____ diagonals.
6. The number of diagonals in a pentagon is _____ .
7. A regular hexagon has _____ diagonals.
8. The diagonals of a square are equal in length and _____ each other at right angles.
9. An isosceles trapezoid has _____ line(s) of symmetry.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each shape to its diagonal property.

Rectangle	→ _____	Diagonals bisect each other but are unequal
Rhombus	→ _____	Diagonals are equal and bisect at right angles
Square	→ _____	Diagonals are equal and bisect each other
Parallelogram	→ _____	Diagonals bisect at right angles but are unequal

Answer Key · Classifying 2D Shapes · Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. An equilateral triangle has **3** lines of symmetry.
2. The diagonals of a rhombus cross at **right** angles.
3. A scalene triangle has **0** line(s) of symmetry.
4. An isosceles triangle has exactly **1** line(s) of symmetry.
5. A quadrilateral has **2** diagonals.
6. The number of diagonals in a pentagon is **5** .
7. A regular hexagon has **9** diagonals.
8. The diagonals of a square are equal in length and **bisect** each other at right angles.
9. An isosceles trapezoid has **1** line(s) of symmetry.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each shape to its diagonal property.

Rectangle	→ **Diagonals are equal and bisect each other**	Diagonals bisect each other but are unequal
Rhombus	→ **Diagonals bisect at right angles but are unequal**	Diagonals are equal and bisect at right angles
Square	→ **Diagonals are equal and bisect at right angles**	Diagonals are equal and bisect each other
Parallelogram	→ **Diagonals bisect each other but are unequal**	Diagonals bisect at right angles but are unequal