



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	→ <u>Diagonals are equal and bisect each other</u>	Diagonals bisect each other but are unequal
Rhombus	→ <u>Diagonals bisect at right angles but are unequal</u>	Diagonals are equal and bisect at right angles
Square	→ <u>Diagonals are equal and bisect at right angles</u>	Diagonals are equal and bisect each other
Parallelogram	→ <u>Diagonals bisect each other but are unequal</u>	Diagonals bisect at right angles but are unequal