Classifying 2D Shapes

Name: _____ Date: _____ Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. A regular polygon has all sides _____ and all angles _____.
2. A triangle with sides 5 cm, 5 cm, and 8 cm is classified as _____.
3. An acute triangle has _____ angles that are each less than 90°.
4. A triangle with angles 30°, 60°, and 90° is classified as a _____ triangle.
5. The third angle of a triangle with two angles of 45° each measures _____ degrees.
6. A triangle with sides 3 cm, 4 cm, and 5 cm is a _____ triangle by its sides.
7. An equilateral triangle has three angles that each measure _____ degrees.
8. A pentagon is a polygon with _____ sides.
9. A triangle with one angle of 120° is called a(n) _____ triangle.

Part B: Matching

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

1. Match each item to its correct answer.

Three equal sides, all angles 60°	→ _____	Isosceles triangle
One angle exactly 90°	→ _____	Equilateral triangle
No equal sides, no equal angles	→ _____	Scalene triangle
Two equal sides, two equal base angles	→ _____	Right triangle

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

Part A: Fill in the Blank

Write the missing word or number on each line.

1. A regular polygon has all sides **equal, equal** and all angles _____.
2. A triangle with sides 5 cm, 5 cm, and 8 cm is classified as **isosceles**.
3. An acute triangle has **3** angles that are each less than 90°.
4. A triangle with angles 30°, 60°, and 90° is classified as a **right** triangle.
5. The third angle of a triangle with two angles of 45° each measures **90** degrees.
6. A triangle with sides 3 cm, 4 cm, and 5 cm is a **scalene** triangle by its sides.
7. An equilateral triangle has three angles that each measure **60** degrees.
8. A pentagon is a polygon with **5** sides.
9. A triangle with one angle of 120° is called a(n) **obtuse** triangle.

Part B: Matching

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

1. Match each item to its correct answer.

Three equal sides, all angles 60°	→ **Equilateral triangle**	Isosceles triangle
One angle exactly 90°	→ **Right triangle**	Equilateral triangle
No equal sides, no equal angles	→ **Scalene triangle**	Scalene triangle
Two equal sides, two equal base angles	→ **Isosceles triangle**	Right triangle