Properties of Triangles

Name: _____ Date: _____

Remember:

- **Equilateral:** All 3 sides equal, all 3 angles equal (60°)
- **Isosceles:** 2 sides equal, 2 angles equal
- **Scalene:** No sides equal, no angles equal

Part A: Identify the Triangle Type

Look at the side lengths and write whether each triangle is *equilateral*, *isosceles*, or *scalene*.

1. Triangle with sides: 5cm, 5cm, 5cm
   Type: _____
2. Triangle with sides: 7cm, 4cm, 7cm
   Type: _____
3. Triangle with sides: 6cm, 8cm, 10cm
   Type: _____
4. Triangle with sides: 9cm, 9cm, 9cm
   Type: _____
5. Triangle with sides: 3cm, 5cm, 7cm
   Type: _____
6. Triangle with sides: 12cm, 8cm, 12cm
   Type: _____

Part B: True or False

Write **T** for true or **F** for false.

1. _____ An equilateral triangle has all sides the same length.
2. _____ A scalene triangle has two equal sides.
3. _____ An isosceles triangle has at least two equal sides.
4. _____ All angles in an equilateral triangle are equal.
5. _____ A scalene triangle can have three equal angles.

Part C: Complete the Properties

Fill in the missing information about each triangle type.

Equilateral Triangle
Number of equal sides: _____
Number of equal angles: _____

Isosceles Triangle
Number of equal sides: _____
Number of equal angles: _____

Scalene Triangle
Number of equal sides: _____
Number of equal angles: _____

Part D: Challenge Question

A triangle has angles measuring 60°, 60°, and 60°. What type of triangle is it?

Answer: _____

Explain your reasoning:

_____