Classifying Triangles by Sides and Angles

Name: _____ Date: _____

Remember:

By Sides:
- **Equilateral:** all 3 sides equal
- **Isosceles:** 2 sides equal
- **Scalene:** no sides equal

By Angles:
- **Acute:** all angles < 90°
- **Right:** one angle = 90°
- **Obtuse:** one angle > 90°

Part A: Classify by Sides

Write whether each triangle is equilateral, isosceles, or scalene.

1. Triangle with sides: 5 cm, 5 cm, 5 cm _____
2. Triangle with sides: 7 cm, 9 cm, 7 cm _____
3. Triangle with sides: 4 cm, 6 cm, 8 cm _____
4. Triangle with sides: 12 mm, 12 mm, 15 mm _____
5. Triangle with sides: 3.5 m, 4.2 m, 5.1 m _____

Part B: Classify by Angles

Write whether each triangle is acute, right, or obtuse.

6. Triangle with angles: 60°, 60°, 60° _____
7. Triangle with angles: 45°, 45°, 90° _____
8. Triangle with angles: 110°, 40°, 30° _____
9. Triangle with angles: 55°, 65°, 60° _____
10. Triangle with angles: 30°, 60°, 90° _____

Part C: Double Classification

Classify each triangle by BOTH sides and angles.

11. Triangle with sides 8 cm, 8 cm, 8 cm and angles 60°, 60°, 60°
    By sides: _____ By angles: _____
12. Triangle with sides 5 m, 5 m, 7 m and angles 48°, 48°, 84°

By sides: _____ By angles: _____

13. Triangle with sides 6 cm, 8 cm, 10 cm and angles 37°, 53°, 90°

By sides: _____ By angles: _____