

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 $< 90^\circ$
- **Right:** one angle $= 90^\circ$
- **Obtuse:** one angle $> 90^\circ$

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:
