

Geometry Quiz Study Guide

This study guide reviews everything you need to know for your Geometry Quiz: angles, triangles, and quadrilaterals. Use this to study before your test!

1. Angles

- Acute angle: less than 90°
- Right angle: exactly 90°
- Obtuse angle: greater than 90° but less than 180°
- Straight angle: exactly 180°

How to use a protractor:

1. Place the center on the vertex.
2. Line one ray up with 0° .
3. Follow the other ray and read the number.

2. Triangles by Sides

- Equilateral: 3 equal sides
- Isosceles (not equilateral): 2 equal sides
- Scalene: no equal sides

3. Triangles by Angles

- Acute triangle: all angles acute
- Right triangle: one right angle
- Obtuse triangle: one obtuse angle

4. Quadrilaterals

- Quadrilateral: a shape with 4 sides
- Square: 4 equal sides, 4 right angles
- Rectangle: opposite sides equal, 4 right angles
- Rhombus: 4 equal sides, no right angles (usually)
- Parallelogram: opposite sides parallel and equal
- Trapezoid: exactly one pair of parallel sides
- Kite: two pairs of adjacent equal sides

5. Line Relationships

- Parallel lines: never touch
- Perpendicular lines: meet at right angles

Practice

1. Name an angle that measures 45° : _____
2. What type of triangle has 2 equal sides? _____
3. What type of triangle has one 90° angle? _____
4. Which quadrilateral has exactly one pair of parallel sides? _____
5. Which shape has 4 right angles and 4 equal sides? _____

6. Classify: A triangle with no equal sides = _____

7. A shape with opposite sides parallel = _____