

# Geometry Study Guide Chapter 1 Tools of Geometry

## 1-1 Nets & Drawings for Visualizing Geometry

1. What is a net? Can you draw one from a 3-D object? Can you label dimensions?
2. What is an isometric drawing? Can you draw one from a 3-D object?
3. What is an orthographic drawing? Can you draw one from a 3-D object?
4. Do you understand Problems 1, 2, 3, and 4?
5. Do you understand how to do these problems? p. 7; #1, 2, 4, 11, 13, 19, 27, 35, 37

## 1-2 Points, Lines, & Planes

1. Can you describe points, lines, planes, segments, rays, opposite rays? Can you describe how to name them?
2. Do you understand the concepts of collinear and coplanar?
3. Can you describe how 2 lines intersect? How a line and a plane intersect? How 2 planes intersect?
4. Do you understand Problems 1, 2, 3, & 4?
5. Do you understand how to do these problems? p. 16; #8-11, 14, 17, 21, 29

## 1-3 Measuring Segments

1. Can you find distance or length on a number line?
2. Can you describe the segment addition postulate?
3. Can you find a midpoint on a number line?
4. Do you understand Problems 1, 2, 3, & 4?
5. Do you understand how to do these problems? p. 24; #9, 13, 17, 19, 39,

## 1-4 Measuring Angles

1. Do you understand how to name angles?
2. Can you describe the angle addition postulate?
3. Do you understand Problems 1, 2, & 4?
4. Do you understand how to do these problems? p. 31; #8, 14, 15, 19, 21, 22, 23

The first test covers this material.

## 1-5 Exploring Angle Pairs

1. Can you describe adjacent / vertical / complementary / supplementary angles?
2. What is a linear pair? What is the sum of the measures of the angles?
3. Do you understand Problems 1, 2, 3, & 4?
4. Do you understand how to do these problems? p. 38; #7, 9, 11, 13, 19, 24, 25, 26

## 1-7 Midpoint & Distance in the Coordinate Plane

1. Can you find the coordinates of a midpoint of a segment in the coordinate plane?
2. Do you understand what to do if you are given 1 endpoint and the midpoint and asked to find the other endpoint?
3. Can you find distance or length of a segment in the coordinate plane?
4. Do you understand how the Pythagorean Theorem relates to finding distance or length?
5. Do you understand Problems 1, 2, 3, & 4?
6. Do you understand how to do these problems? p. 54; #7, 11, 19, 27, 33, 49

The second test covers the entire chapter.

## 1-8 Perimeter, Circumference, & Area

1. Do you have your Geometry Formula Sheet? Do you understand how to interpret and apply the formulas for Circles, Rectangles, and Squares?
2. How do diameter and radius relate to each other?
3. Do you understand Problems 1, 2, 3, 4, 5, & 6?
4. Do you understand how to do these problems? p. 64; #7, 11, 15, 19, 25, 27, 31

**REVIEW: Chapter Review p. 70-74; Vocabulary; Notes; Homework; Classwork; Quizzes**