

Lesson Notes 8.1

NAME _____

Module 8 Points, Lines, Angles, and Triangles
Lesson 1 Language of Geometry

Lesson Objectives

- Identify points, lines, planes, rays, and segments.
- Define and identify an angle.
- Label parts of an angle: vertex, rays, interior, and exterior.

Subtopic 1 Basic Terms of Geometry

Point

- A _____
- Has no size
- Represented by a _____ dot
- Named with a _____
- Used to make all other geometric figures

Line

- An infinite set of points extending in _____ directions without end
- Named by _____ points on the line

OR

- Named by a _____ letter

Points on the _____ are collinear.

Plane

- A _____ surface
- Extends infinitely in all _____
- Has no _____
- Named by a capital italicized letter

OR

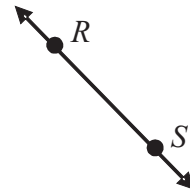
- Named by three _____ points

Points and _____ in the _____ plane are coplanar.

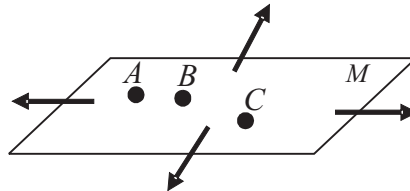
A line segment is a _____ of a line that has two endpoints.

A ray is a part of a line that has one _____ and extends infinitely in one _____.

- 1** Write all the ways to name the line using symbols.



- 2** Write all the ways to name the plane.



Tell whether the statement is true or false.

- 3** A point's length can be measured.

- 4** A line is made up of two points.

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Module 8 **Points, Lines, Angles, and Triangles**
Lesson 1 **Language of Geometry**

Subtopic 2

Angles

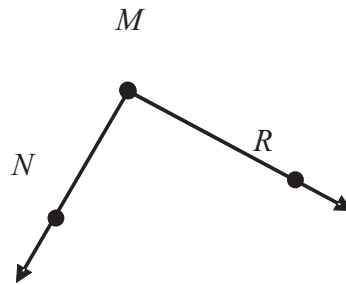
An angle is made up of two distinct _____ that have a common _____.

- The two rays are the _____ of the angle.
- The _____ endpoint is the vertex.
- An angle can be _____ by its vertex.
- An angle can be named using _____ points: a point on one side, the _____, and a point on the other side.
- The vertex is always the _____ letter.
- An angle can be named using a _____.

An angle separates a plane into _____ parts:

- Points that make up the angle
- Points in the _____ of the angle
- Points in the _____ of the angle

5 Name the vertex and sides of the angle.



6 Tell whether each point shown lies on the angle, in the angle's interior, or in the angle's exterior.

