



Name: _____

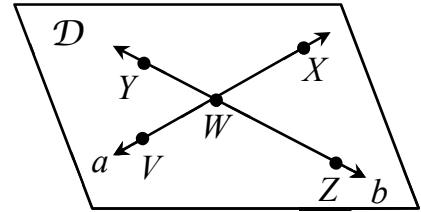
Unit 1: Geometry Basics

Date: _____ Per: _____

Homework 1: Points, Lines, and Planes

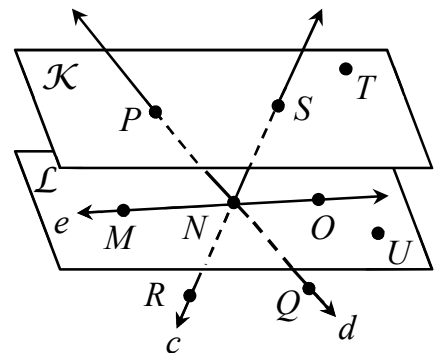
1. Use the diagram to answer the following questions.

- a) How many points appear in the figure? _____
- b) How many lines appear in the figure? _____
- c) How many planes appear in the figure? _____
- d) Name a line containing point V . _____
- e) Name the intersection of lines a and b . _____
- f) Give another name for line b . _____
- g) Name three non-collinear points. _____
- h) Give another name for plane \mathcal{D} . _____



2. Use the diagram to answer the following questions.

- a) How many points appear in the figure? _____
- b) How many lines appear in the figure? _____
- c) How many planes appear in the figure? _____
- d) Name three collinear points. _____
- e) Name four non-coplanar points. _____
- f) Give another name for line e . _____
- g) Name the intersection of \overleftrightarrow{PQ} and \overleftrightarrow{MO} . _____
- h) Name the intersection of plane \mathcal{K} and line c . _____
- i) Give another name for plane \mathcal{L} . _____
- j) Give another name for \overleftrightarrow{PQ} . _____



3. Use the diagram to answer the following questions.

- a) How many points appear in the figure? _____
- b) How many lines appear in the figure? _____
- c) How many planes appear in the figure? _____
- d) Name three collinear points. _____
- e) Name four coplanar points. _____
- f) Name the intersection of planes ABC and ABE . _____
- g) Name the intersection of planes BCH and DEF . _____
- h) Name the intersection of \overline{AD} and \overline{DF} . _____

