





# MU Puzzle

- Committees

**Undefined terms:** committee, member

**Axiom 1:** Each committee is a set of three members.

**Axiom 2:** Each member is on exactly two committees.

**Axiom 3:** No two members may be together on more than one com

**Axiom 4:** There is at least one committee.

# Euclid's Definitions

- Point: that which has no part
- Line: breadthless length
- Circle: a plane figure contained by one line such that all the straight lines falling upon it from one point among those lying within the figure are equal to one another

# Euclid's Common Notions

1. Things which are equal to the same thing are also equal to each other.
2. If equals be added to equals, the wholes are equal.
3. If equals be subtracted from equals, the remainders are equal
4. Things which coincide with one another are equal.
5. The whole is greater than the part.



# Euclid's Axioms

- 1. To draw a straight line from any point to any other.*
- 2. To produce a finite straight line continuously in a straight line.*
- 3. To describe a circle with any centre and distance.*
- 4. That all right angles are equal to each other.*
- 5. That, if a straight line falling on two straight lines make the interior angles on the same side less than two right angles, if produced indefinitely, meet on that side on which are the angles less than the two right angles.*