Quiz 3.1: Introduction to Mathematical System

Multiple Choice: *Choose the letter that corresponds to the correct answer. Write the answer in your answer sheet.*

1. Statements that are assumed to be true without proof are called:
   A. Definition   B. Law   C. Postulate   D. Theorem

2. The set of points consisting of the union of two rays with a common endpoint is called:
   A. Angle   B. Bisector   C. Segment   D. Vertex

3. A structure that consists of defined and undefined terms, axioms or postulates, and theorems is called:
   A. Direct proof   C. Law of Syllogism
   B. Indirect proof   D. Mathematical system

4. Terms that can only be explained using representations and/or descriptions are called:
   A. Defined terms   B. Mathematical termsC. Simplified terms   D. Undefined terms

5. Perpendicular lines ___ form right angles.
   A. always   B. sometimes   C. maybe   D. never

6. Any three points not on the same line ___ determine a plane.
   A. always   B. sometimes   C. maybe   D. never

7. A line ___ has endpoints.
   A. always   B. sometimes   C. maybe   D. never

8. Two lines that are not parallel ___ intersect.
   A. always   B. sometimes   C. maybe   D. never

9. Which of the following objects represent a line?
   A. Blackboard   B. Ruler   C. Scissors   D. Tip of a pen

10. Which of the following objects represent a point?
    A. Blackboard   B. Ruler   C. Scissors   D. Tip of a pen

11. Which of the following objects represent a plane?
    A. Blackboard   B. Ruler   C. Scissors   D. Tip of a pen

12. Which of the following objects represent an angle?
    A. Blackboard   B. Ruler   C. Scissors   D. Tip of a pen

13. The following are characteristics of a line except:
    A. Has infinite depth   B. Has infinite length   C. Has zero width   D. Has zero height

14. The following are characteristics of a plane except:
    A. Has zero thickness   B. Has infinite length   C. Has infinite width   D. Has infinite height

15. The following are characteristics of a point except:
    A. Has infinite thickness   C. Has zero width
    B. Has zero length   D. Has zero height