Define the following Geometric terms:

point : *A geometric object that has no width, no height, and no length. It is usually used to describe a location.*

LINE : *A "straight" geometric object that extends infinitely in opposite directions without any width or thickness.*

SEGMENT : *A "straight" geometric object without any width or thickness and has a starting and ending point.*

RAY : *A "straight" object without any width or thickness that begins at a point and extends forever in one direction.*

Plane : *A flat geometric object with infinite length and width but no Thickness. (e.g. Visualize an infinitely large piece of paper with no thickness.)*

Collinear : *A set of 3 or more distinct points that could all be on a single line.*

Coplanar : *A set of 4 or more distinct points that could all exist on a single plane.*

ANGLE : *A geometric object that could be described as two different rays emanating from the same starting point.*

Parallel Lines : *Parallel lines are two distinct lines that are in the same plane but never intersect.*

PErpEndicular Lines : *Perpendicular lines are two distinct lines that intersect to form right angles.*

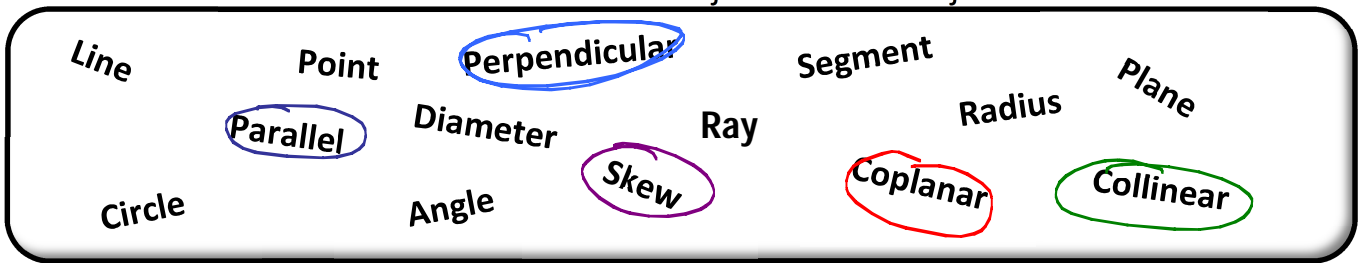**SKEW** : *Skew lines are two distinct lines that are NOT in the same plane and therefore never intersect.*

Circle : *A geometric object that could be described as the set of all points In a plane that are equidistant from a common point.*

Use the word bank below to describe each object or set of objects.

Line Point Perpendicular Segment Plane
Parallel Diameter Ray Radius
Circle Angle Skew Coplanar Collinear

1. How would you best describe the **purple geometric shape** shown in the diagram at the right?

   ANGLE

2. How would you best describe the **red geometric shape** shown in the diagram at the right?

   CIRCLE

3. How would you best describe the **center of the circle** shown in the diagram at the right?

   POINT

4. How would you best describe the **pink geometric shape** shown in the diagram above?

   RAY

5. How would you best describe the **blue geometric shape** shown in the diagram above?

   SEGMENT AND RADIUS

6. How would you best describe the **green geometric shape** shown in the diagram above?

   LINE

7. How would you best describe the **orange geometric shape** shown in the diagram above?

   SEGMENT AND DIAMETER

8. How would you best describe the relation between the set of geometric shapes **Point A, Point B, and Point C**? COLLINEAR

9. How would you best describe the relation between the set of **green** and **orange** geometric shapes? PERPENDICULAR

Use the word bank below to describe each object or set of objects.

Line   Point   Perpendicular   Segment   Plane

Parallel   Diameter   Ray   Radius

Circle   Angle   Skew   Coplanar   Collinear

The geometric shape shown in the diagram below is a 3-dimensional rectangular prism.

10. How would you best describe the relationship between the line $\overleftrightarrow{AC}$ and the line $\overleftrightarrow{GI}$?
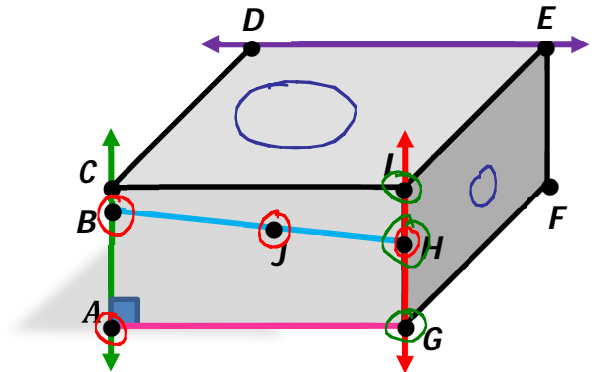
PARALLEL

11. How would you best describe the relationship between the line $\overleftrightarrow{AC}$ and the segment $\overline{AG}$?

PERPENDICULAR

12. How would you best describe the relationship between the line $\overleftrightarrow{AC}$ and the line $\overleftrightarrow{DE}$?
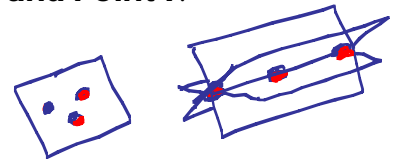
SKEW

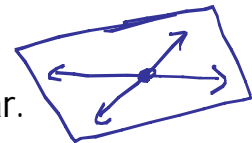13. How would you best describe the set of **Point A, Point B, Point J and Point H**?

COPLANAR

14. How would you best describe the set of **Point G, Point H, and Point I**?

COLLINEAR

15. (True or False) Any 3 distinct points are always coplanar.
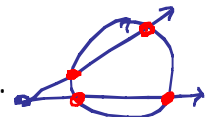
16. (True or False) Any 2 distinct circles are always coplanar.

17. (True or False) If 2 lines intersect once then the lines are coplanar.

18. (True or False) Two lines that are skew can sometimes intersect.

19. (True or False) An angle and a circle can have more than 3 intersections.

20. (True or False) Two distinct circles can have more than 2 intersections.

21. (True or False) Any given line and point are always coplanar.