






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.*


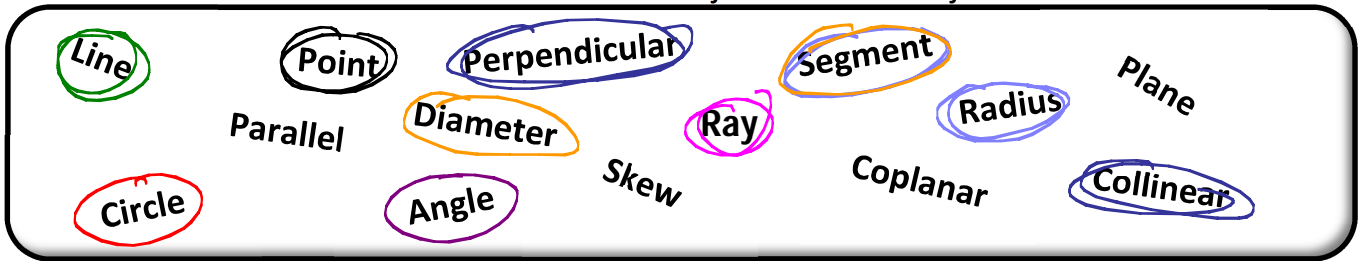
Parallel Lines: *Parallel lines are two distinct lines that are in the same plane but never intersect.*


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


Skew Lines: *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.



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

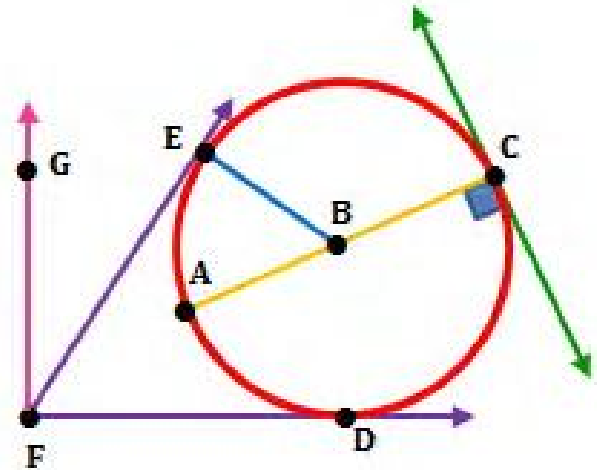
7. How would you best describe the **orange geometric shape** shown in the diagram above?

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} ?

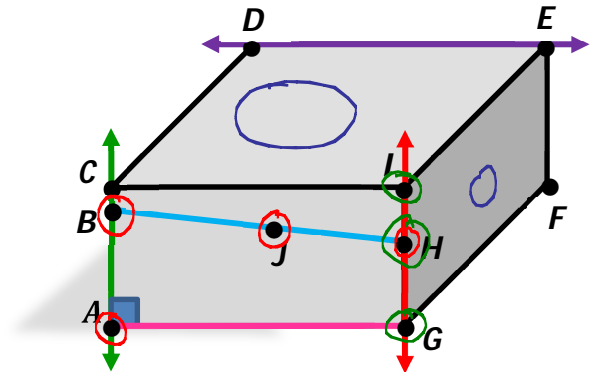
PARALLEL

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

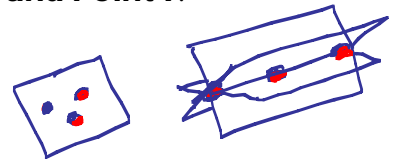


13. How would you best describe the set of Point A, Point B, Point J and Point H?

COPLANAR

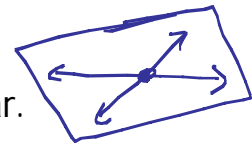
14. How would you best describe the set of Point G, Point H, and Point I?

COLLINEAR



15. **True** or False) Any 3 distinct points are always coplanar.

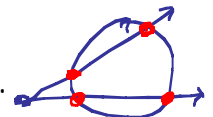
16. (True or **False**) Any 2 distinct circles are always coplanar.



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.

