**Multiple choices**

|  |  |
| --- | --- |
| **1.** | **A line and a plane intersect in :** |
|  | **a.** Point | **b.** Line |
|  | **c.** Plane | **d.** Line segment |

|  |  |
| --- | --- |
| **2.** | **Two planes intersect in:** |
|  | **a.** Line segment | **b.** Line |
|  | **c.** Point | **d**. Ray |

**3. Identify a choice that best completes the statement.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **a.** |  \_\_\_\_\_\_\_\_\_ two points are collinear. | Any | Sometimes | No |
|  **b.** | \_\_\_\_\_\_\_\_\_ three points are collinear. | Any | Sometimes | No |
|  **c.** | \_\_\_\_\_\_\_\_\_ two lines that intersect, will intersect in a point. | Any | Sometimes | No |

**4. Refer to each figure**

|  |  |  |  |
| --- | --- | --- | --- |
|  | $$ D$$$ $$$ $$$ A$$ H$$π$$ N L $ | Name three coplanar points. |  |
| Name a point that is coplanar with $ L and H$ |  |
| Name the intersection of plane$ π$ and plane $ NAD.$ |  |
| Name the intersection of plane$ NAH$ and plane $ DHL.$ |  |

**5. Draw and label figure for this relationship.**

|  |  |  |
| --- | --- | --- |
|  | Draw four points, $G, H,R$ and $P$in plane $ π$. Points $ H,R$ and $P$are collinear. Then sketch $\vec{GH}$ and $\overleftrightarrow{PR.}$ |  |

**ANSWERS**

**Multiple choices**

|  |  |
| --- | --- |
| **1.** | **A line and a plane intersect in :** |
|  | **a.** Point | **b.** Line |
|  | **c.** Plane | **d.** Line segment |

|  |  |
| --- | --- |
| **2.** | **Two planes intersect in:** |
|  | **a.** Line segment | **b.** Line |
|  | **c.** Point | **d**. Ray |

**3. Identify a choice that best completes the statement.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **a.** |  \_\_\_\_\_\_\_\_\_ two points are collinear. | Any | Sometimes | No |
|  **b.** | \_\_\_\_\_\_\_\_\_ three points are collinear. | Any | Sometimes | No |
|  **c.** | \_\_\_\_\_\_\_\_\_ two lines that intersect, will intersect in a point. | Any | Sometimes | No |

**4. Refer to each figure**

|  |  |  |  |
| --- | --- | --- | --- |
|  | $$ D$$$ $$$ $$$ A$$ H$$π$$ N L $ | Name three coplanar points. | $$N, L, A$$ |
| Name a point that is coplanar with $ L and H$ | Point$ D$ |
| Name the intersection of plane$ π$ and plane $ NAD.$ | Line$\overleftrightarrow{NA.}$ |
| Name the intersection of plane$ NAH$ and plane $ DHL.$ | Line$\overleftrightarrow{LH.}$ |

**5. Draw and label figure for this relationship.**

|  |  |  |
| --- | --- | --- |
|  | Draw four points, $G, H,R$ and $P$in plane $ π$. Points $ H,R$ and $P$are collinear. Then sketch $\vec{GH}$ and $\overleftrightarrow{PR.}$ | $R $$ H$$ G P $$$ π$$ |