# Points, Lines, and Line Segments

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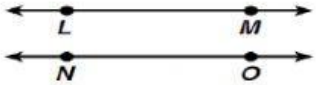
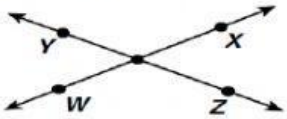
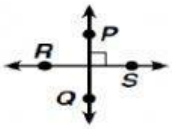
|---|---|---|
| Write $H$, but say and read point $H$.<br> <br><br>A **point** identifies a location in space. | Write $\overleftrightarrow{GH}$ or $\overleftrightarrow{HG}$, but say and read line $GH$ or line $HG$.<br> <br><br>A **line** extends forever in either direction. | Write $\overline{PQ}$ or $\overline{QP}$, but say and read line segment $PQ$ or line segment $QP$.<br> <br><br>A **line segment** is a part of a line that has a beginning and an end. |
| **Parallel lines** are always the same distance apart. The symbol $\parallel$ means "is parallel to." $\overleftrightarrow{LM} \parallel \overleftrightarrow{NO}$<br>  <br> | **Intersecting lines** cross each other.<br>  <br> | **Perpendicular lines** form a right angle. The symbol for perpendicular lines is $\perp$. $\overleftrightarrow{PQ} \perp \overleftrightarrow{RS}$<br>  <br> |

**Directions:** Write *parallel* or *intersecting* on the line.

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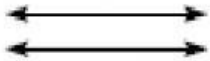

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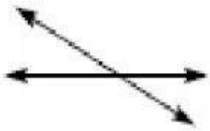

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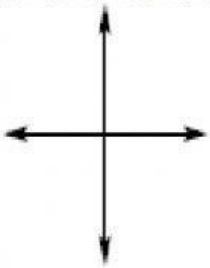

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