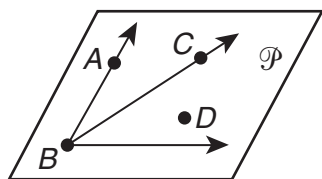


SKILL
22 **Skills Readiness**
Points, Lines, and Planes

Object	Definition	Notation
Point	A location in space that has no size.	$\cdot A$
Segment	A part of a line consisting of two endpoints and all the points between.	\overline{AB}
Ray	A part of a line consisting of one endpoint and all the points of the line on one side of the endpoint.	\overrightarrow{AB}
Line	A series of points that extends without end in opposite directions.	\overleftrightarrow{AB}
Plane	A flat (two-dimensional) surface that extends without end in all directions. A plane has no thickness.	\mathcal{P}

Example: Use the diagram to name a point, a segment, a ray, a line, and a plane (if possible).



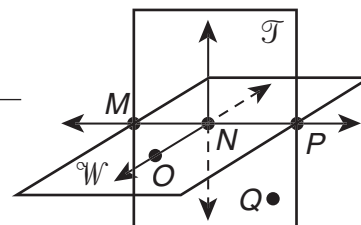
Answers

Any one of the following are points: A , B , C , or D .
 There are two segments: \overline{BA} and \overline{BC} .
 There are two rays: \overrightarrow{BA} and \overrightarrow{BC} .
 There are no lines.
 There is one plane: \mathcal{P}

Practice on Your Own

Use the diagram to the right to name each of the following.

- a point _____
- a line _____
- a segment _____
- a ray _____
- a plane _____
- a ray with endpoint O _____
- the line that passes through the point M _____
- the plane that contains the point Q _____
- a segment with one endpoint at point O _____
- the point where lines MP and ON meet _____



Check

Use the diagram to the right to name each of the following.

- two points _____ and _____
- a segment _____
- two rays _____ and _____
- a line _____
- two planes _____ and _____
- the plane that contains line CD _____

