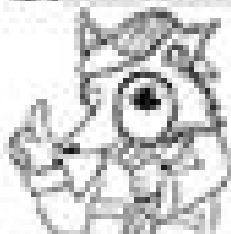


Name \_\_\_\_\_

Line, line segment, and ray



### Mystery-Dot Masterpieces

Creative Geometry is a dot artist who knows that lines, line segments, and rays are different. She has a magic machine connecting the dots on this page that she believes that her Creative Geometry contains the picture below.

**Line**



**Line Segment**



**Ray**



Directions: Below are 2 Mystery-Dot pictures. Complete each picture by using the tools to help you connect the dots to create lines, line segments, and rays.

**1. Clue for Mystery-Dot 1**  
Line segments

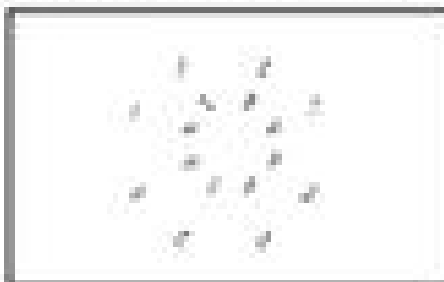
Line Segment:  $\overline{AB}$ ,  $\overline{BC}$ ,  $\overline{CD}$ ,  $\overline{DE}$

Line Segment:  $\overline{AC}$ ,  $\overline{BD}$ ,  $\overline{CE}$ ,  $\overline{DE}$

**Ray**

Ray:  $\overrightarrow{AB}$ ,  $\overrightarrow{BC}$ ,  $\overrightarrow{CD}$ ,  $\overrightarrow{DE}$

Ray:  $\overrightarrow{AC}$ ,  $\overrightarrow{BD}$ ,  $\overrightarrow{CE}$ ,  $\overrightarrow{DE}$



**2. Clue for Mystery-Dot 2**  
Line segments

Line Segment:  $\overline{AB}$ ,  $\overline{AC}$ ,  $\overline{AD}$ ,  $\overline{AE}$ ,  $\overline{BC}$ ,  $\overline{BD}$ ,  $\overline{CD}$ ,  $\overline{CE}$ ,  $\overline{DE}$ ,  $\overline{FE}$ ,  $\overline{FD}$ ,  $\overline{BE}$ ,  $\overline{CE}$ ,  $\overline{DE}$

Line Segment:  $\overline{AC}$ ,  $\overline{AD}$ ,  $\overline{AE}$ ,  $\overline{BC}$ ,  $\overline{BD}$ ,  $\overline{CD}$ ,  $\overline{CE}$ ,  $\overline{DE}$ ,  $\overline{FE}$ ,  $\overline{FD}$ ,  $\overline{BE}$ ,  $\overline{CE}$ ,  $\overline{DE}$

**Ray**

Ray:  $\overrightarrow{AC}$ ,  $\overrightarrow{AD}$ ,  $\overrightarrow{AE}$

**Line**

Line:  $\overleftrightarrow{AC}$



Remember: Use the tools to create lines, line segments, and rays by connecting the dots to create lines, line segments, and rays.