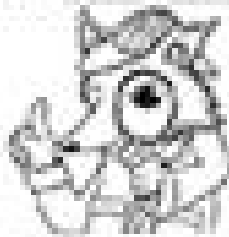


Name _____

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. Study the pictures that her Creative Geometry machine has picture made.

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. Claws for Mystery-Dot 1 Line segments

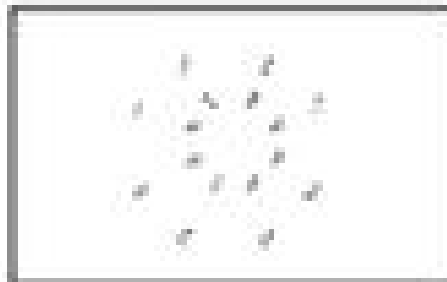
Line Segment: \overline{AB} , \overline{BC} , \overline{CD} , \overline{DE}

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. Claws 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{BD} , \overline{CE}

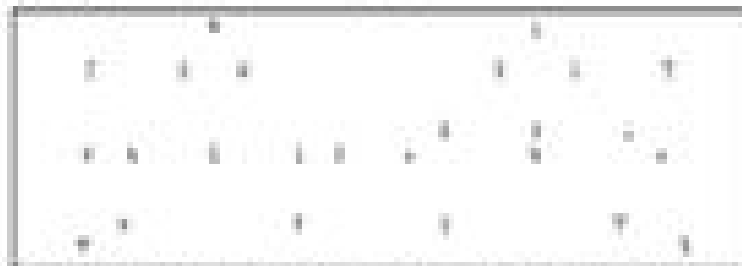
Line Segment: \overline{AC} , \overline{AD} , \overline{AE} , \overline{BC} , \overline{BD} , \overline{CD} , \overline{CE} , \overline{DE} , \overline{FE} , \overline{FD} , \overline{BE} , \overline{BD} , \overline{CE}

Ray:

Ray: \overrightarrow{AB} , \overrightarrow{AC}

Line:

Line: \overleftrightarrow{AB}



Source: Adapted from *Math Alive!*, © 2003 by The Math Learning Center, Inc.