Study the following.

geometry (jee-**om**-uh-tree) – a type of math that deals with lines, angels, and shapes and the measurement of these things. (I studied different shapes in my geometry class.)

point (**point**) - an exact location in space. (I drew a dot on my paper to show a point.)

line (**line**) – lots of points in a row along a straight path, going on and on in both directions. (You can't measure how long a line is because it goes on and on.)

segment (**line seg**-muhnt) – a part of something. (I ate three segments of that orange.)

line segment (**seg**-muhnt) – a part of a line. (I measured the line segment and it was 2 inches long.)

ray (**ray**) – one end of a line. It starts at a point and goes on and on in one direction.

endpoint (**end**-point) – the points at the end of a line segment, or the point at the end of a ray are called endpoints. (The line segment had two endpoints.)

Say each word out loud and write it in the blank.

geometry_____
point_____
line_____
segment_____
ray_____
endpoint_____

Write each definition in your own words.

geometry

point

line

segment

line segment
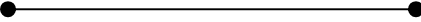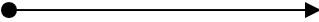
ray

endpoint

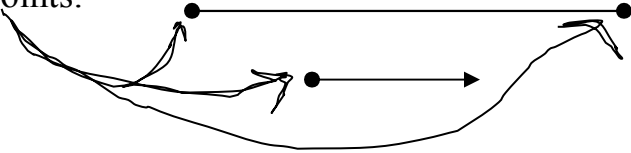## Study the following.

These are some examples of the above words.

point :   •

line:

line segment:

ray:

endpoints:

Write two sentences using each word.

geometry
1.

2.

point
1.

2.

line
1.

2.

segment
1.

2.

line segment
1.

2.

ray
1.

2.

endpoint
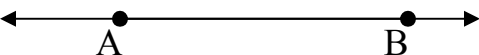1.

2.

Matching.

geometry   an exact location in space

point   a part of something

line   a part of a line

segment   a type of math that deals with lines, angels, and shapes and the measurement of these things

line segment   the points at the end of a line segment, or the point at the end of a ray

ray   lots of points in a row along a straight path, going on and on in both directions.

endpoint   It starts at a point and goes on and on in one direction.
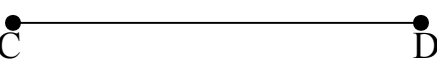
Study the following.

Here are some examples of how the above are labeled and named using capital letters to represent points. The capital letters are drawn next to the points.
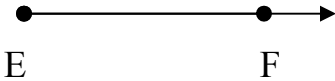
Point A   • A

line AB
or line BA

line segment CD
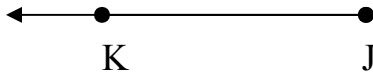or line segment DC   C   D

ray EF

endpoints G, H, and I

Note: when you name a ray you always start with the endpoint, and then name another point on the ray.
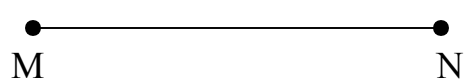
Example: ray JK

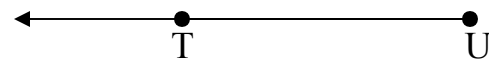Since J is the endpoint you name the J first, then the K to get ray JK

Write the name of each of the following in the blank.
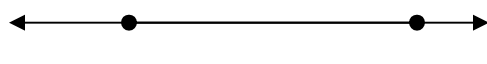
1. _____   • Q

2. _____ or _____

                                                      F   G

3. _____ or _____

                                                      M   N

4. _____

                                            R   S

5. _____

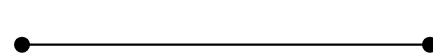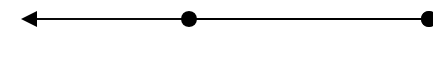   T   U

Label the following by putting capital letters next to each point.

1. Point W   •

2. line XY

3. line segment PQ

4. ray ST

5. ray OP

Draw and label two examples of each of the following.

point

line

line segment

ray

Study the following.

These are the letters and symbols that represent each of the following.

Point R   R

Line ST $\overleftrightarrow{ST}$

Line segment KL $\overline{KL}$

Ray BC $\overrightarrow{BC}$

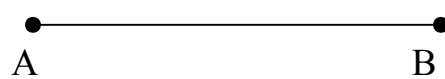**Write three examples for each, using letters and symbols.**

point
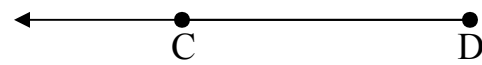
line

line segment

ray

Name the following using letters and symbols.
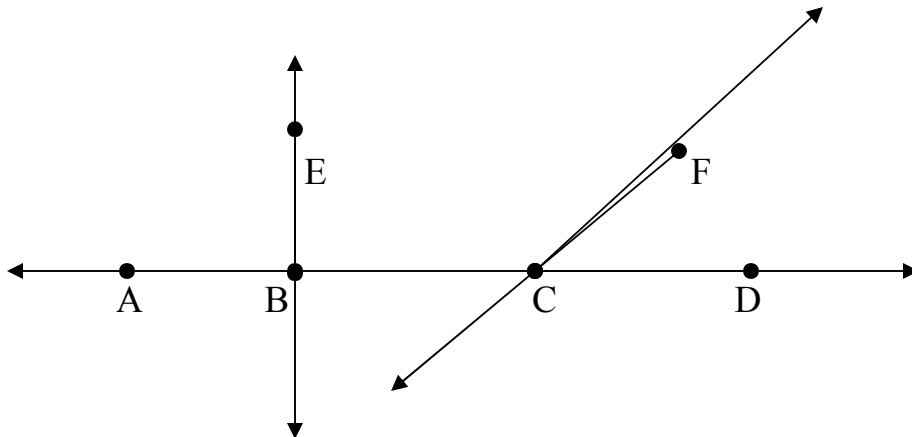
1. _____   • R

2. _____ or _____   H   I

3. _____ or _____   A   B

4. _____   K   L

5. _____   C   D

Using the diagram, fill in the blanks.

1. Name six points. _____, _____, _____, _____, _____, _____

2. Name five line segments using letters and symbols.

   _____, _____, _____, _____, _____

3. Name four rays using letters and symbols.

   _____, _____, _____, _____

4. Name three lines using letters and symbols.

   _____, _____, _____

Study the following.

<u>horizontal line</u> (hor-uh-**zon**-tuhl) – a line drawn straight across. The word comes from the horizon, which goes straight across. (An equal sign (=) is drawn with two horizontal lines.)

<u>vertical line</u> (**vur**-tuh-kuhl) – a line drawn exactly up and down. (The capital letter H has two vertical lines and one horizontal one.)

<u>intersecting lines</u> (in-tur-**sekt**-ing) – lines that cross each other. (The capital letter X is make from two intersecting lines.)

<u>intersection</u> (**in**-tur-sek-shuhn) – the point where two lines cross. (The intersection of the two lines was labeled with the letter Q.)

Say each word out loud and write it in the blank.

horizontal_____
vertical_____
intersecting_____
intersection_____

Write each definition in your own words.

horizontal line

vertical line

intersecting lines

intersection

Write two sentences using each word.

horizontal line
1.

2.

vertical line
1.

2.

intersecting lines
1.

2.

intersection
1.

2.

Matching.

horizontal line   lines that cross each other

vertical line   a line drawn straight across

intersecting lines   a line drawn exactly up and down
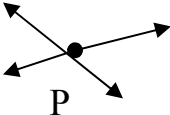
intersection   the point where two lines cross

Fill in the blanks.

1. | This is a _____ line.

2.   ___   This is a _____ line.

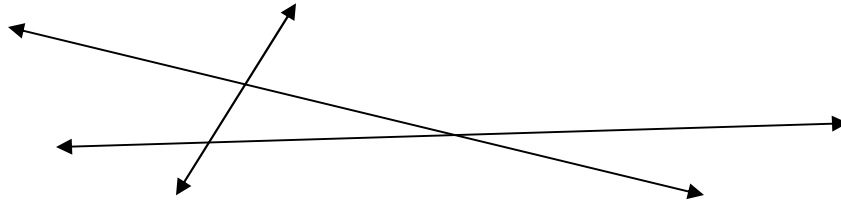3.   ×   These are _____ lines.

4.   The point P is an _____.
      P

5.   ↔   This is a _____ line.

6. ↕ This is a _____ line.

7. The letter T contains one _____ line and one

_____ line. The letter K contains one _____

 line. The letter Z contains two _____ lines.

Draw two intersecting lines and label the intersection.

Label all the intersections.

Draw two horizontal lines.

Draw two vertical lines.