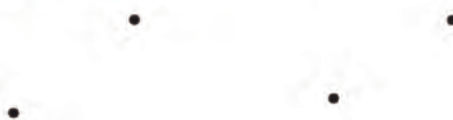


In mathematics, an exact fixed location is called a **point**. We use dots to mark points.



points

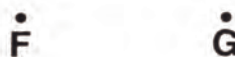
These four dots represent four different _____.

We use capital letters to name points.



Z

These are points **X**, **Y**, and _____.



points

These dots represent two _____ named **F** and **G**.



G

We now show a straight path connecting the points **F** and _____.

The straight path is called a **line segment**.

segment

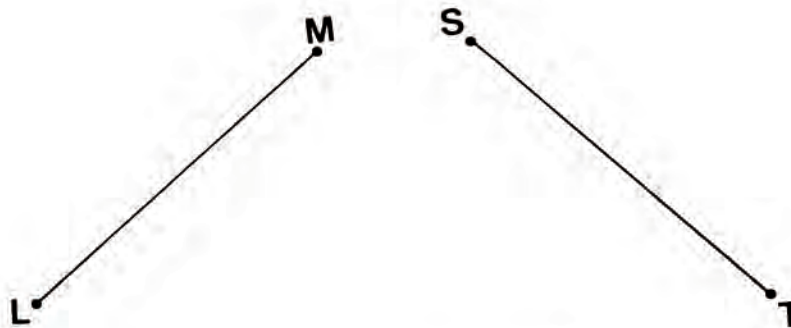
The points **F** and **G** are called the **endpoints** of the line _____.

To name a line segment, we use the names of its endpoints.



line

This is _____ segment **HK**. We write this segment using the notation **\overline{HK}** .



line

The drawings represent two _____ segments.

segment

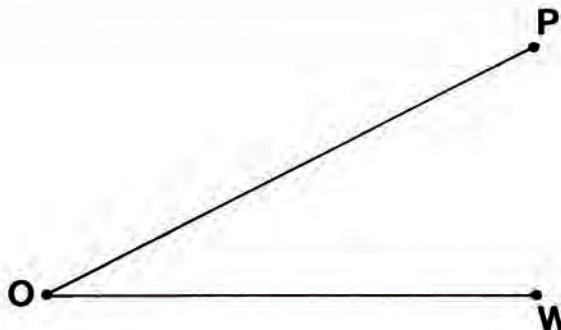
Each line _____ contains two endpoints.

endpoints

We use the letters that name its _____ to name a line segment.

\overline{ST}

The names of the line segments are \overline{LM} and _____.



\overline{OW}

Line segments \overline{OP} and _____ share the endpoint **O**.

segments

Line _____ that have a common endpoint form an **angle**.

angle

The line segments are called the sides of the _____.

endpoint

Their common _____ is called the **vertex** of the angle.

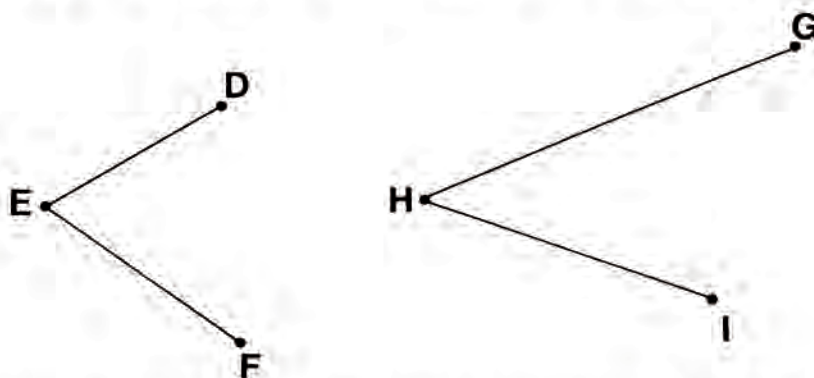
O

The vertex of the above angle is the endpoint _____.

\overline{OP}

The sides of the angle are the line segments _____ and \overline{OW} .

To refer to an angle, we will use the name of its vertex.



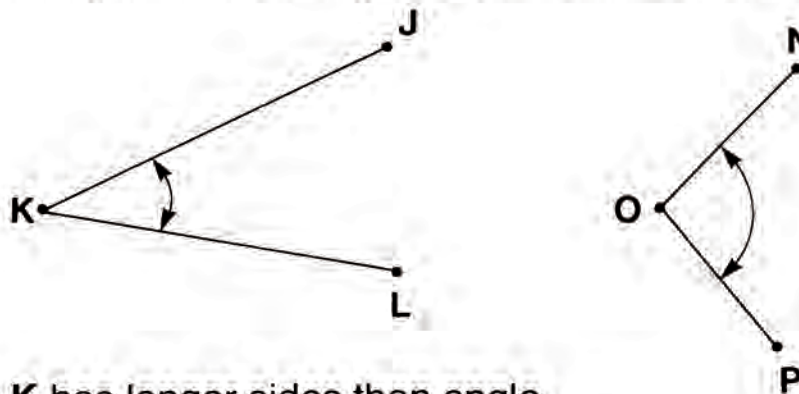
\overline{EF}

angle

The sides of angle **E** are the line segments \overline{ED} and _____.

The sides of _____ **H** are the line segments \overline{HG} and \overline{HI} .

The size of an angle does not depend on the length of its sides. It depends on the opening between the sides.

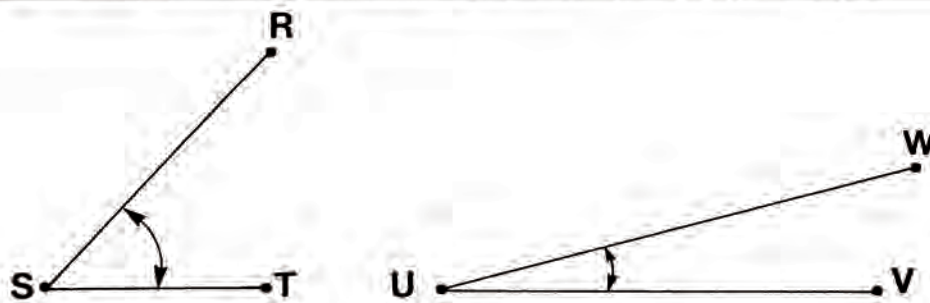


O

Angle **K** has longer sides than angle _____.

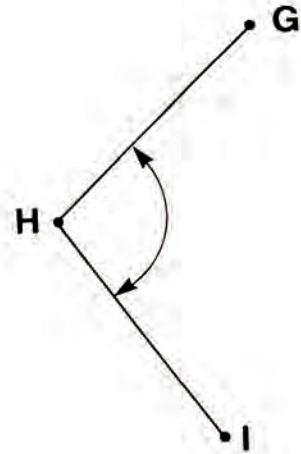
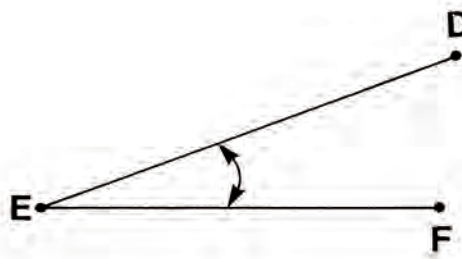
K

But angle **O** is larger than angle _____.



S , **U**

Angle _____ is larger than angle _____.



angle E

Which angle is smaller? $\begin{cases} \text{angle E} \\ \text{angle H} \end{cases}$



\overline{KL}

Line segments \overline{JK} and _____ share the endpoint **K**.

Think of point **K** as the vertex of an angle.

\overline{JK}

The line segments _____ and \overline{KL} then become the sides of the angle.

We will call an angle whose sides form a straight line through the vertex a **straight angle**.

straight

Point **K** is the vertex of a _____ angle.

angle

Angles are measured in **degrees**. A degree is $\frac{1}{180}$ of a straight _____.

degrees

A straight angle has a measure of 180 _____.