> point - has no size
represented by $\qquad$ dot

- named by capital letters

line -extends infinately in two directions
- shown with arrows at each end
- two ways to name lines:

1. lower case cursive letter
2. two points on the line with a line symbol above them

plane - can be thought of as flat surfaces that extend infinately in all directions and have no thickness
(think of a floor or wall)

- named by capital cursive letter or by three points not in a line on the plane


Example 1
a) Name 4 points.

$$
T, u, W, S
$$

b) Name 2 lines.

$$
\lim _{T M} \ell_{\overrightarrow{U S}} \text { 竞 }
$$

c) Name 2
 planes.
plane $\begin{gathered}\text { a } \\ \text { ap plane } \\ \text { B }\end{gathered}$

A line segment has end points
(symbol $\overline{\mathrm{AB}}$ )

$A$ ray consists of an initial point $A$ and all points on $\widehat{A B}$ that lie on the same side of $A$ as point $B$.


## Example 2

a) Draw $\overleftrightarrow{M K}$ line

b) Draw $\overline{\mathrm{MK}}$

c) Draw MK | $\substack{\text { line meant } \\ \text { ray } \\ \stackrel{y y y}{c} \\ \hline}$ |
| :---: |



## An angle consists of two rays with the same endpoint.

The rays are the sides of the angle. The endpoint is the vertex .


## Name the angles in the diagram.



You should only name an angle by a single letter when there is no chance of confusion.

How do we measure angles?

DEGREES!!

1. Place the center of the protractor on the vertex of the angle with the straightedge along one ray.
2. Use the scale that begins with 0 at the
straightedge. Read where the ray crosses this scale.


## CLASSIFYING ANGLES



Acute
$m \angle A$ is
between $0^{\circ}$
and $90^{\circ}$


Right
$m \angle A=90^{\circ}$


Obtuse
$m \angle A$ is between $90^{\circ}$ and $180^{\circ}$


Straight
$m \angle A=180^{\circ}$
12.1 The Language of Geometry (Part 2).notebook

