$$
\begin{gathered}
\square .2 \\
\text { MEASURING } \\
\text { SBGMENTS }
\end{gathered}
$$

$\qquad$


## Postulate 2

If two distinct lines $\qquad$ , then they intersect in exactly $\qquad$ .


## Postulate 3

If two distinct planes $\qquad$ , then they intersect in exactly $\qquad$ .

## Postulate 4

Through any three $\qquad$ ,
there is exactly $\qquad$ .


## Ruler Postulate

- Every point on a $\qquad$ .
- The real numbers that corresponds to a point is called
- The $\qquad$ between any two points on a number line is the $\qquad$ of the of the real numbers corresponding to the points.

Formula: Take the of the two coordinates a and b :

## Ruler Postulate : Example

## Find the distance between $P$ and $K$.



Therefore, the coordinates of points $\boldsymbol{P}$ and $\boldsymbol{K}$ are and respectively.
Substituting the coordinates in the formula

$$
P K=
$$

Remember : Distance is always positive

## DEFINITIONS

## Bisect -

Congruent -

## Congruent vs. Equal

Foot Example

## Example



## Segment Addition Postulate



## Example: If $\mathrm{AC}=x, \mathrm{CB}=2 x$ and $\mathrm{AB}=12$, then, find $x, \mathrm{AC}$ and CB.



## Defining.".

## Example B

Study the information, then identify which creatures in the last group are Orks.

Orks


Not Orks


Who are Orks?

4. Define midpoint of a segment.

Midpoints of segments


Point $C$ is a midpoint of segment $A B$. Point $T$ is a midpoint of segment $M N$. Point $E$ is a midpoint of segment $Q D$.

Not midpoints of segments


Points $B$ and $C$ are not midpoints of segment $A D$.
Point $P$ is not a midpoint of segment $O Y$. Point $L$ is not a midpoint of segment $K M$.

