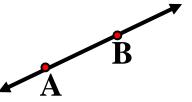


## MEASURING SEGMENTS

## REVIEW

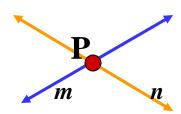
#### Postulate 1

Through any \_\_\_\_\_ there is exactly \_\_\_\_\_.



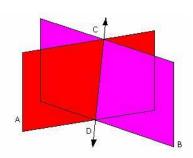
## Postulate 2

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



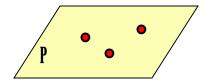
## Postulate 3

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



#### Postulate 4

Through any three \_\_\_\_\_, there is exactly \_\_\_\_\_.

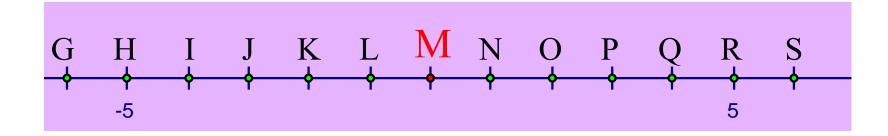


## **Ruler Postulate**

•	Every point on a
•	The real numbers that corresponds to a point is called .
•	The between any two points on a number line is the of the of the real numbers corresponding to the points.
	Formula: Take theof the two coordinates a and b:

## Ruler Postulate: Example

Find the distance between P and K.



Therefore, the coordinates of points P and K are and respectively.

Substituting the coordinates in the formula

$$PK =$$

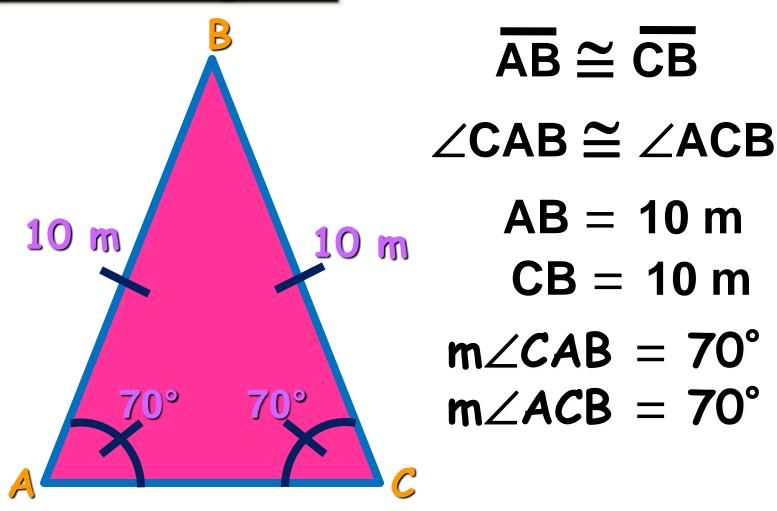
Remember : Distance is always positive

# DEFINITIONS Bisect –

## Congruent –

## Congruent vs. Equal $\sim$

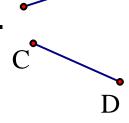
## **Example**



## **Congruent Segments**

Definition: \_\_\_\_\_\_ (congruent symbol: )

Congruent segments can be marked with \_\_\_\_\_



If numbers are \_\_\_\_\_ the objects are \_\_\_\_\_

AB: the segment AB (an object)

AB: the distance from A to B (a number)

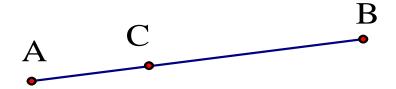
Correct notation: AB = CD  $\overline{AB} \cong \overline{CD}$ 

Incorrect notation:  $AB \cong CD$   $\overline{AB} = \overline{CD}$ 

## **Segment Addition Postulate**



Example: If AC = x, CB = 2x and AB = 12, then, find x, AC and CB.



## Defining...

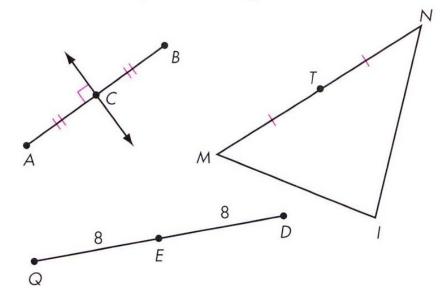
## Example B

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

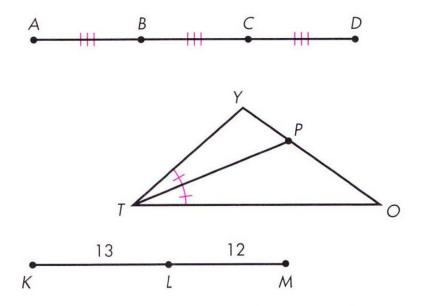


#### **4.** Define *midpoint of a segment*.

Midpoints of segments



Point *C* is a midpoint of segment *AB*. Point *T* is a midpoint of segment *MN*. Point *E* is a midpoint of segment *QD*. Not midpoints of segments



Points *B* and *C* are not midpoints of segment *AD*.

Point *P* is not a midpoint of segment *OY*. Point *L* is not a midpoint of segment *KM*.