

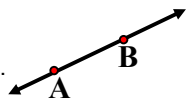
1.2

MEASURING SEGMENTS

REVIEW

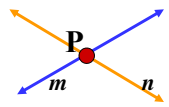
Postulate 1

Through any _____ there is exactly _____.



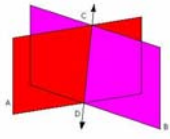
Postulate 2

If two distinct lines _____, then they intersect in exactly _____.



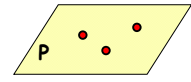
Postulate 3

If two distinct planes _____, then they intersect in exactly _____.



Postulate 4

Through any three _____, there is exactly _____.



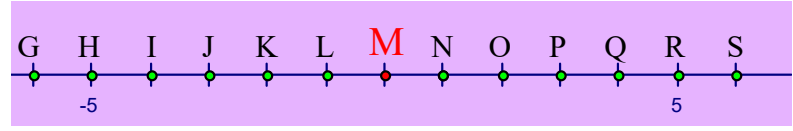
Ruler Postulate

- 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 the _____ of 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 –

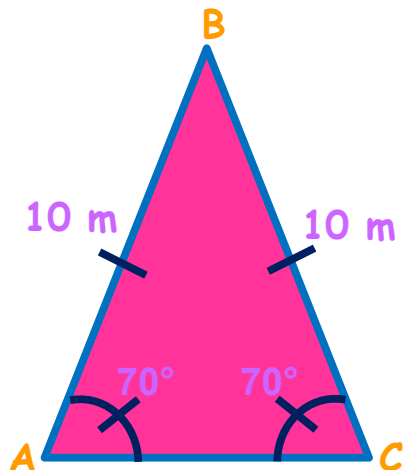
Congruent –

Congruent vs. Equal



Foot Example

Example

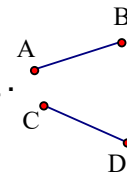


$$\begin{aligned}\overline{AB} &\cong \overline{CB} \\ \angle CAB &\cong \angle ACB \\ AB &= 10 \text{ m} \\ CB &= 10 \text{ m} \\ m\angle CAB &= 70^\circ \\ m\angle ACB &= 70^\circ\end{aligned}$$

Congruent Segments

Definition: _____
(congruent symbol: _____)

Congruent segments can be marked with _____.



If numbers are _____ the objects are _____.

\overline{AB} : the segment AB (an object)

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

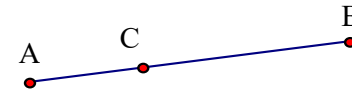
Correct notation: $AB = CD$ $\overline{AB} \cong \overline{CD}$

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 .



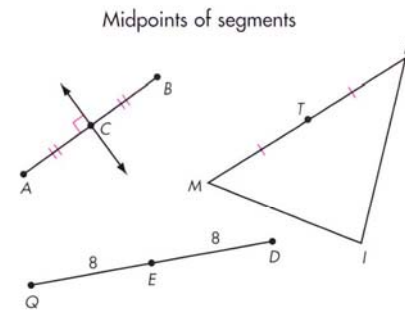
Defining...

Example B

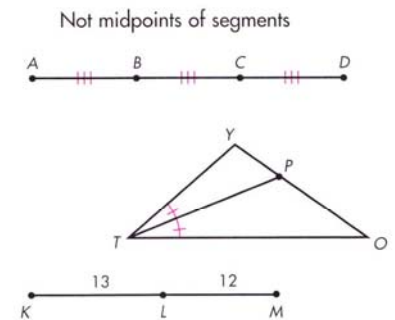
Study the information, then identify which creatures in the last group are Orks.



4. Define midpoint of a segment.



Point C is a midpoint of segment AB .
 Point T is a midpoint of segment MN .
 Point E is a midpoint of segment QD .



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 .