

## 1.5 Segments and Their Measures

Objective: Measure segments. Add segment lengths.

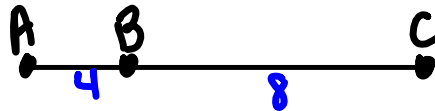
The number on a number line is called a coordinate.

The distance between points A and B is written AB. AB is also called the length.

Postulate 5: Segment Addition Postulate: If B is between A and

C, then ~~AB + BC = AC~~

$$4 + 8 = 12$$



*\*part + part = whole \**

Example 1: Checkpoint on the top of pg. 30.

A. Find the length of AC.

$$\begin{aligned} AB + BC &= AC \\ 14 + 6 &= 20 \end{aligned}$$

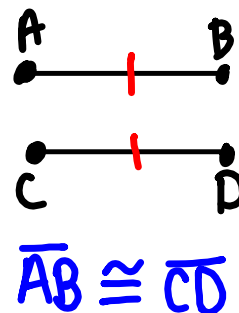
B. Find the length of ST.

$$\begin{aligned} ST + TR &= SR \\ x + 15 &= 23 \\ -15 \quad -15 & \\ x = 8 &= ST \end{aligned}$$

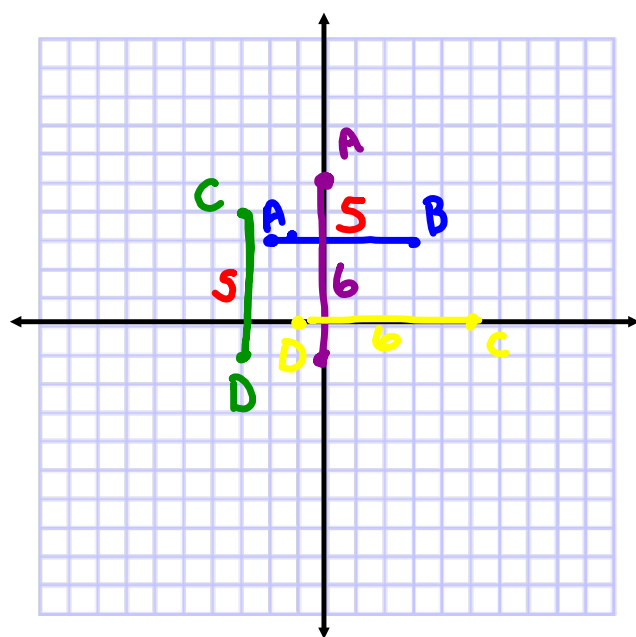
Segments that have the same length are called congruent segments.

Use short tick marks to indicate congruent segments.

The symbol for indicating congruence is  $\cong$ .



Example 2: Checkpoint on the bottom of pg. 30



$A(-2, 3)$

$B(3, 3)$

$C(-3, 4)$

$D(-3, -1)$

$A(0, 5)$

$B(0, -1)$

$\overline{AB} \cong \overline{CD}$

$C(5, 0)$

$D(-1, 0)$

$\overline{AC} \cong \overline{BD}$

$\neq$        $\cong$   
 $\neq$        $\neq$

Name

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