Segments & Congruence

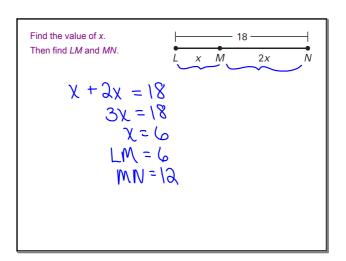
Segment—part of a line that consists of two points, called endpoints, and all of the points on the line that are between the endpoints

> Use the endpoints to name a line segment.



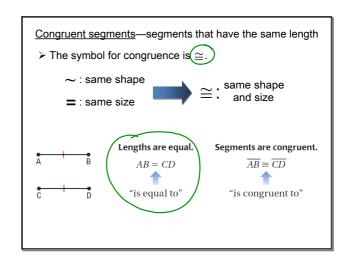
Length—the distance between the endpoints of a segment

title segments



Suppose K is between J and L. Use the Segment Addition Postulate to solve for x. Then find JK and KL.

$$JK = 7x + 2$$
, $KL = 2x - 1$, $JL = 64$ $\chi = 7$
 $JK = 51$
 $JX + 3 + 2x - 1 = 64$
 $JK = 51$
 $JX = 51$
 JX



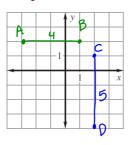
example congruent

Plot the given points in a coordinate plane. Then determine whether segment *AB* is congruent to segment *CD*.

$$\overline{AB}: A(-3,2), B(1,2) \checkmark$$

$$\overline{CD}: C(2,1), D(2,-4) \checkmark$$





Conclusion

- 1. What is the difference between a line and a segment?
- 2. Using the Segment Addition Postulate, make a problem for your partner to solve.
- 3. Trade papers and solve. Discuss with your partner the problems.
- 4. Questions????

example Aug 19-6:33 PM

Assignment
Segments and Congruence
Wkst 1.2

Aug 19-6:35 PM