Lesson 6-A

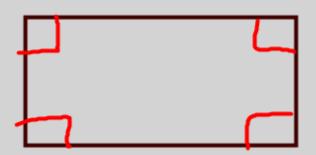
Rectangles



You will recognize and apply properties of rectangles

You will determine whether parallelograms are rectangles.

Rectangle: quadrilateral with 4 right angles



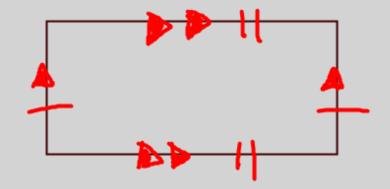
Rectangle Properties

Opposite <'s are ____

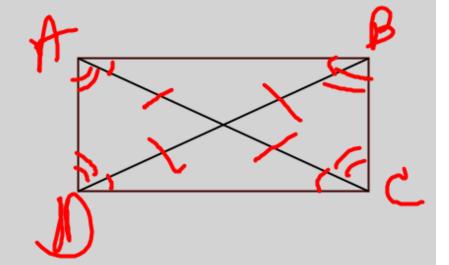
180) 180)

Consecutive <'s are Supplementary

Opposite sides are



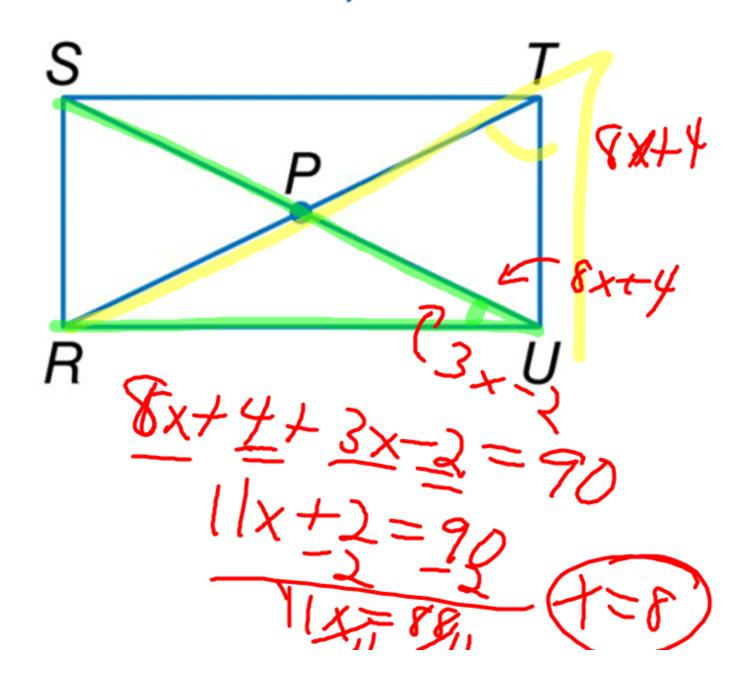
Diagonals are
$$\frac{2}{8}$$
 & b, secteach other AC $\stackrel{\sim}{=}$ DB



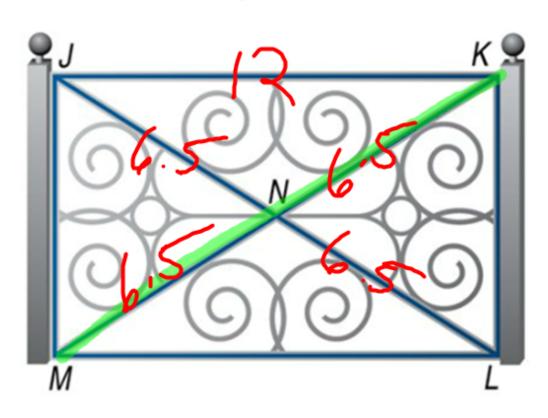
A Parallelogram is a rectangle iff the diagonals are \cong

and

Quadrilateral *RSTU* is a rectangle. If $m\angle RTU = 8x + 4$ and $m\angle SUR = 3x - 2$, find x.



CONSTRUCTION A rectangular garden gate is reinforced with diagonal braces to prevent it from sagging. If JK = 12 feet, and LN = 6.5 feet, find KM.



Find the measure of each angle

3) Rectangle IJKL

$$m \angle 1 = 80^{\circ}$$
 $m \angle 6 = 50^{\circ}$

$$m \angle 2 = 5$$
 ° $m \angle 7 = 20$ °

$$m \angle 3 = 100^{\circ}$$
 $m \angle 8 = 40^{\circ}$

$$m \angle 4 = 40^{\circ}$$
 $m \angle 9 = 100^{\circ}$

$$m \angle 5 = 40^{\circ}$$
 $m \angle 10 = 40^{\circ}$

