

Explore Side and Diagonal
Properties of Parallelograms

Name _____

Date _____ Period _____

Geogebra Activity

Use the Geogebra activity to complete the table below. Draw and label the parallelogram you create. Click and find the measure of the sides and diagonals of your parallelogram.

Parallelogram	Side Length	Properties of Parallelograms
	$AB = \underline{\hspace{1cm}} \quad DC = \underline{\hspace{1cm}}$	
	$BC = \underline{\hspace{1cm}} \quad AD = \underline{\hspace{1cm}}$	
	Diagonals	
	$AC = \underline{\hspace{1cm}} \quad BD = \underline{\hspace{1cm}}$	
	$AE = \underline{\hspace{1cm}} \quad EC = \underline{\hspace{1cm}}$	
	$BE = \underline{\hspace{1cm}} \quad ED = \underline{\hspace{1cm}}$	

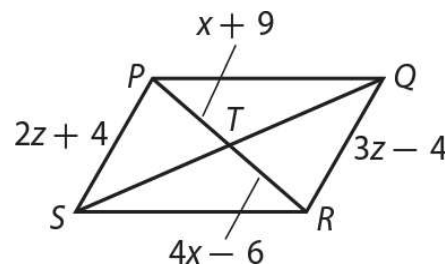
Turn & Talk: Share with a partner your measurements from above. Discuss what you have noticed and mark the congruent segments you have found in the parallelogram.

Reflection: Write two or three sentences that describe the properties you have discovered of the sides and the diagonals of parallelograms.

PQRS is a parallelogram.

Find $QR = \underline{\hspace{1cm}}$

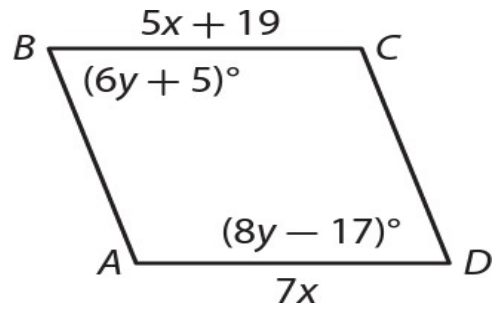
Find $PR = \underline{\hspace{1cm}}$



YOUR TURN

ABCD is a parallelogram.

Find $BC =$ _____



Reflection:

How would you explain to an absent student what we did in class today, what you discovered, and how we used this to solve problems?