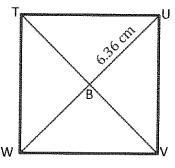
G5-IVI5-Lesson 20

1. Fill in the table below.

Shape	Defining Attributes
Trapezoid	 Quadrilateral Has at least one pair of parallel sides
Parallelogram	 A quadrilateral in which both pairs of opposite sides are parallel
Rectangle	A quadrilateral with 4 right angles
Rhombus	A quadrilateral with all sides of equal length
Square	 A rhombus with four 90° angles A rectangle with 4 equal sides
Kite	 Quadrilateral with 2 consecutive sides of equal length Has 2 remaining sides of equal length

2. TUVW is a square with an area of 81 cm^2 , and UB = 6.36 cm. Find the measurements using what you know about the properties of squares.



a. UW = 12.72 cm

Diagonals of a square bisect each other, so \overline{UB} and \overline{BW} are equal in length. 6.36+6.36=12.72

b. TV = UW = 12.72 cm

I know that in a square the diagonals are equal in length.

c. Perimeter = 36 cm

I know that in a square every side length is equal, so I need to think about what times itself is equal to 81. I know that 9×9 is 81, so each side is 9 cm. Since there are 4 equal sides, I can multiply 9×4 to get the perimeter.

I know every angle in a square must be 90° because it is a defining attribute of a square.

 $. \quad m \angle TUV = \underline{90}^{\circ}$