G5-M5-Lesson 16

1. What are polygons with four sides called?

    Quadrilaterals

    > I know that the prefix "quad" means "four."

2. What are the attributes of trapezoids?
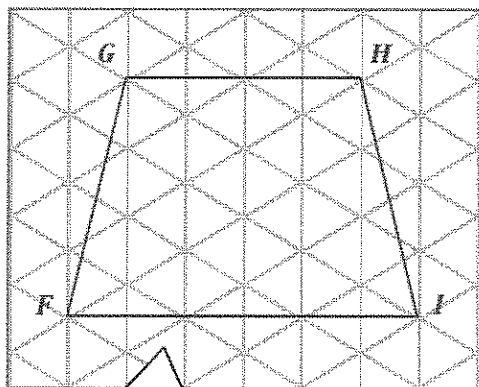
    *   *They are quadrilaterals.*

        > I know that some trapezoids with more specific attributes are commonly known as parallelograms, rectangles, squares, rhombuses, and kites. But *ALL* trapezoids are quadrilaterals with at least one set of opposite sides parallel.

    *   *They have at least one set of opposite sides parallel.*

        > I know that some trapezoids have only right angles (90°), some have two acute angles (less than 90°) and two obtuse angles (more than 90° but less than 180°), and some have a combination of right, acute, and obtuse angles.
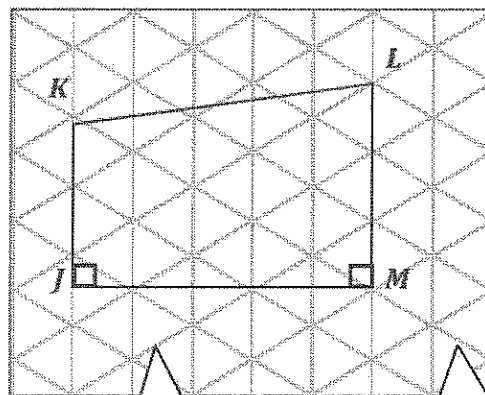
3. Use a straightedge and the grid paper to draw

    a. A trapezoid with 2 sides of equal length.

    b. A trapezoid with no sides of equal length.

    > Since this trapezoid has 2 sides of equal length ($\overline{FG}$ and $\overline{HI}$), it is called an isosceles trapezoid.

    > $\angle J$ and $\angle M$ are right angles and measure 90°.

    > In this trapezoid, none of the sides are equal in length.