



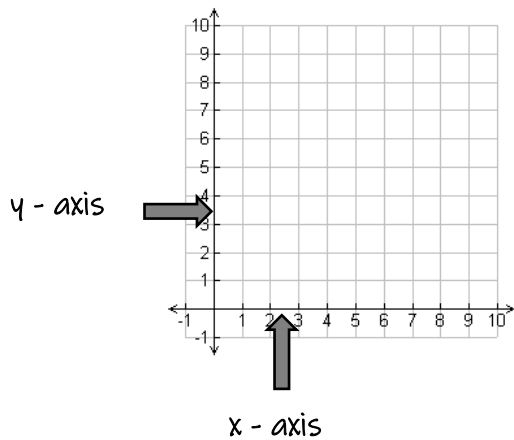
Dear Parents,

Over the next few weeks, we will be learning about *coordinate planes* and *two-dimensional figures* in math! The information below will help you to support your child as they learn these exciting, yet important fifth grade math skills.

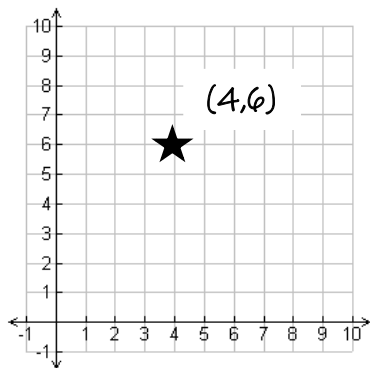
**The GOAL:**

By the end of the unit, your child should be able to *graph points on the coordinate plane* and use the *coordinate plane to solve real world problems*. Your child should also be able to *classify two-dimensional figures*.

**Identify the parts on a coordinate plane**

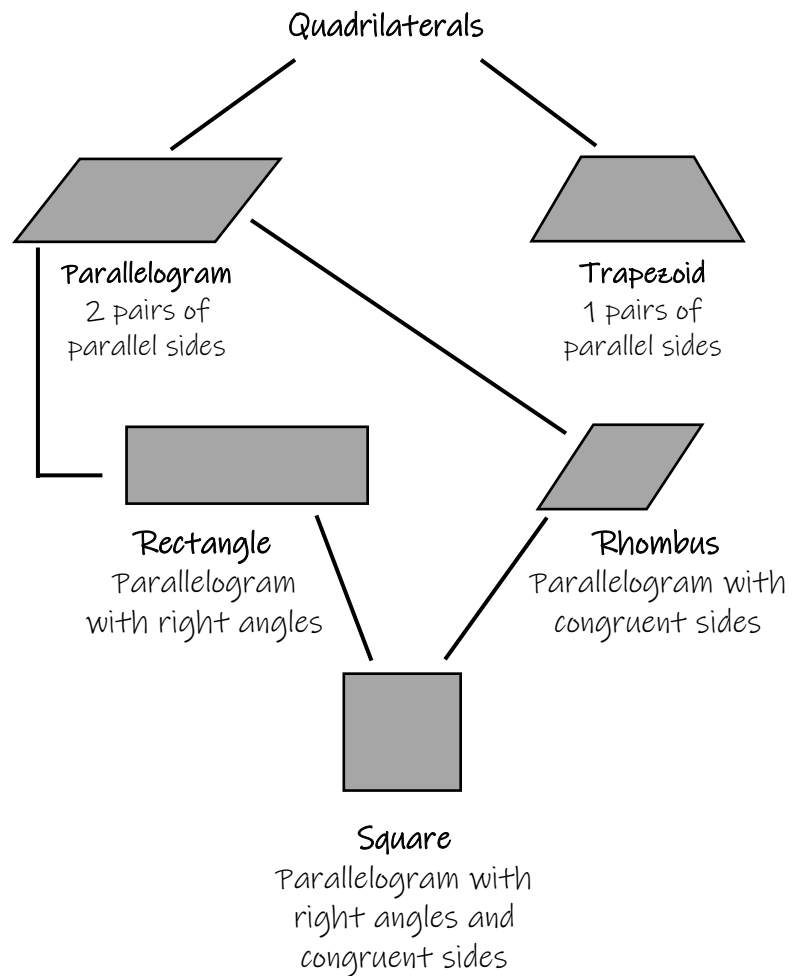


**Graph points on the coordinate plane**



Graph the *ordered pair (4, 6)* on the *coordinate plane*. You move right on the *x-axis* to find the first number (*4*) then up on the *y-axis* to find the second number (*6*). See the point (*4, 6*) plotted on the plane above.

**Classify quadrilaterals based on characteristics and properties of the shape.**





Grade 5 Math: PA Core Math Standards in Unit 4

CC.2.3.5.A.1: Graph points in the first quadrant in the coordinate plane and interpret these points when solving real world and mathematical problems.

CC.2.3.5.A.2: Classify two-dimensional figures into categories based on their properties.

-- KEY MATH VOCABULARY --

**Congruent:** When line segments have the same length or when angles have the same measure, or geometric figures that have the same size and shape.

**Coordinate Plane (grid):** A plane that has been divided into spaces by perpendicular number lines. The perpendicular number lines represent the axes on the coordinate grid.

**Ordered Pair:** Each point on the coordinate grid can be described by pair of numbers that represent the x and y coordinates (x,y).

**Origin:** Where the x-axis and y-axis intersect. The origin creates the ordered pair (0,0).

**Regular Polygon:** All sides and angles are congruent.

**X-Axis:** The horizontal number line on the coordinate grid.

**Y-Axis:** The vertical number line on the coordinate grid.

-- HOW YOU CAN HELP AT HOME --

- Provide opportunities to identify and/or classify shapes using everyday items
- Use crayons, markers, or sidewalk chalk to draw and group shapes
- Play games that involve the coordinate plane (optional example: Battleship)
- Talk about the parts of a shape (how many sides, angles, perpendicular)
- Provide opportunities to sort shapes based on characteristics

