

Dear Family,

During the next few weeks, our math class will be learning about graphing and algebra.

You can expect to see work that provides practice graphing functions, equations, and ordered pairs of integers on a coordinate grid. We will also use coordinates to find the lengths of vertical and horizontal line segments.

As we learn how to find the lengths of vertical and horizontal line segments, you may wish to use this sample as a guide.

Vocabulary

ordered pair A pair of numbers in which one number is identified as the first coordinate and the other number as the second coordinate.

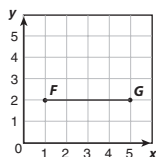
function table A table that matches each input value with a unique output value.

coordinate plane A grid with two perpendicular number lines in which every point is associated with an ordered pair of numbers.

origin A point assigned to zero on the number line or the point where the x - and y -axes intersect in a coordinate plane.

Lengths of Horizontal and Vertical Line Segments

Find the length of the line segment that connects points F and G .



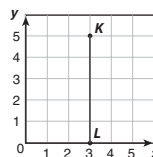
Point F is located at $(1, 2)$.
Point G is located at $(5, 2)$.

To find the length of a horizontal line segment, find the difference between the x -coordinates.

$$5 - 1 = 4$$

The distance from F to G is 4 units.

Find the length of the line segment that connects points K and L .



Point K is located at $(3, 5)$.
Point L is located at $(3, 0)$.

To find the length of a vertical line segment, find the difference between the y -coordinates.

$$5 - 0 = 5$$

The distance from K to L is 5 units.

Learning about graphing and algebra will lay the foundation for the math students learn in years to come

Sincerely,

Your Child's Teacher



Check out *Education Place* at www.eduplace.com/camaf/ for eGlossary, eGames, test prep practice, and more.