Explore the Cartesian Plane!

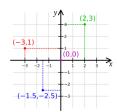
Plotting Points on a Cartesian Plane

The **Cartesian Plane**, named after French mathematician Rene Descartes who invented it, uses two perpendicular lines. One is called the x axis and the other is called the y axis.

Point locations are found using a pair of numbers called coordinates or ordered pairs.

The first number is the x and the second number is the y.





To find the point, or coordinate, (2, 3), slide your finger ACROSS the x axis until you find the number 2, and then slide your finger UP until you find the number 3 on the y axis.

Activities by Age/Grade:

Early	Elementar	y Scavenger	Hunt:	: Using the attached Cartesian Plane,			
write the names of the objects you find at each coordinate.							

(0, 0)		(4, 4)	
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Mid-Late Elementary: Draw a point on the following coordinates on the attached Cartesian Plane.

A(9, 3) B(9, 6) C(6, 6) D(6, 3)

Label each point with its letter and connect the points.

What shape do you see? _____

What are the lengths of the line segments?



What is the Area of the shape? $(A = I \times w)$ ____ units squared

Middle School: Draw a point on the following coordinates on the attached Cartesian Plane.

F(3, 10) G(3, 7) H(7, 7) Label the points and draw lines to connect them.

What shape do you see?

What are the lengths of the line segments? FG: _____ GH: ____

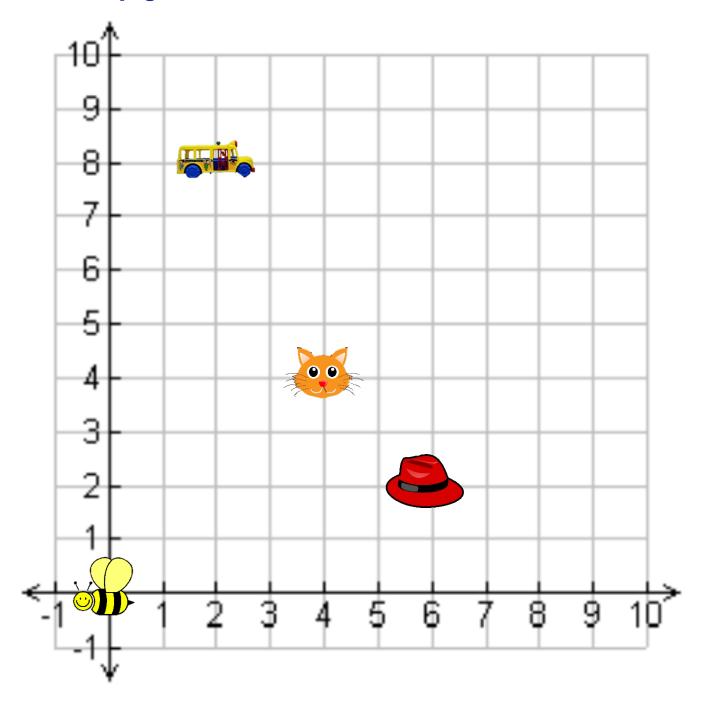
Use the Pythagorean Theorem and a calculator to find the exact length of FH.

The length of line segment FH is: _____ units.

Pythagorean Theorem $a^2 + b^2 = c^2$



Use the Cartesian Plane below to answer the questions from page one:



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