

PRINCIPLES - LESSON 6A

THE COORDINATE PLANE

René Descartes and The Fly



René Descartes
1596-1650

**Influential French philosopher,
mathematician, and scientist**

"I think, therefore I am."



The Fly
Early March 1617- Mid March 1617

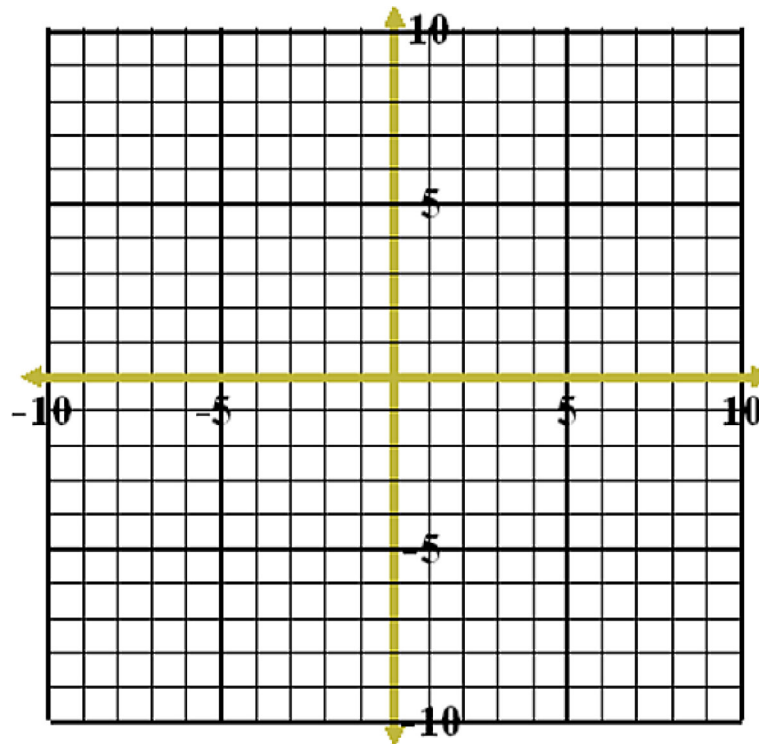
**Insect, disease-carrier, and
all-around annoying pest**

"Bzzzzz."

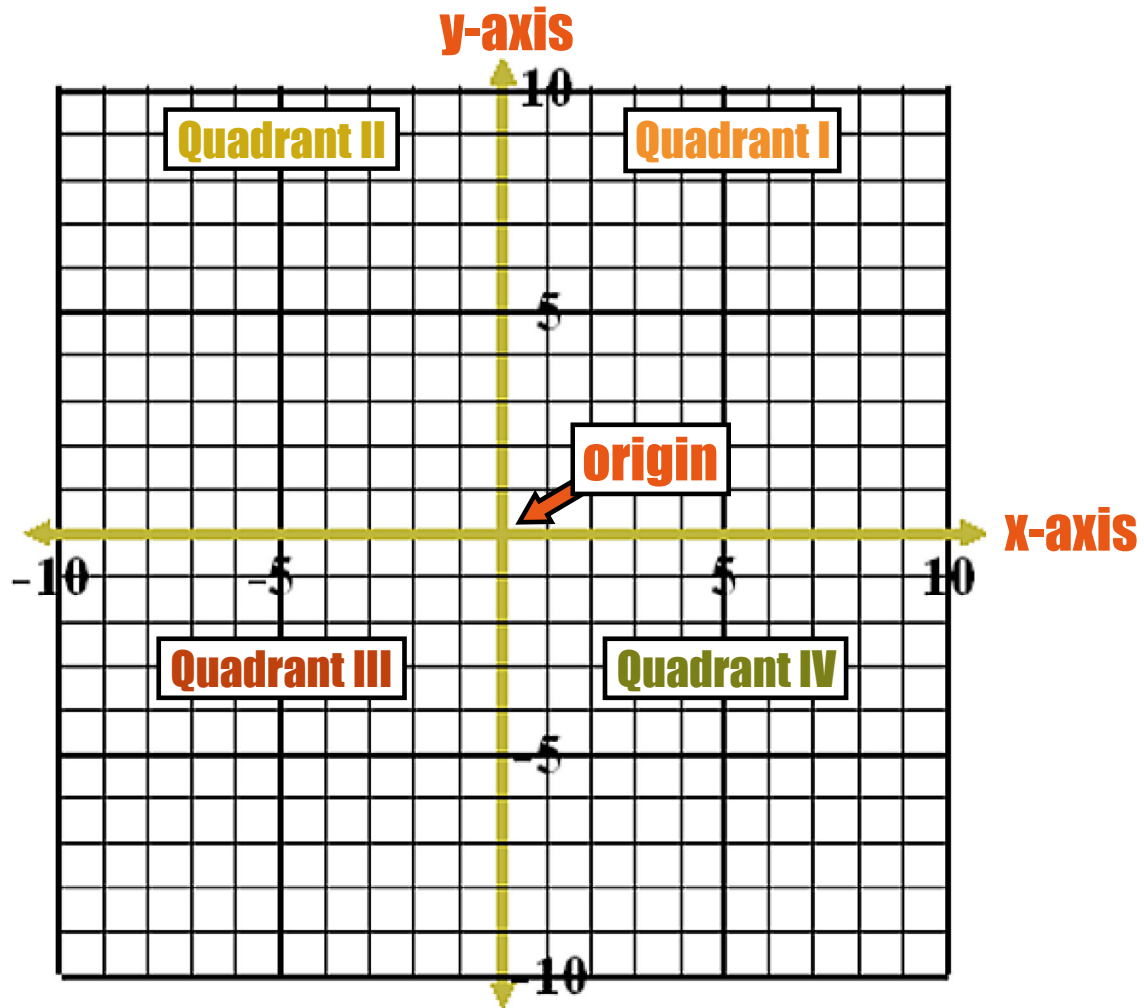
THE COORDINATE PLANE

The **Coordinate Plane** is formed by the intersection of a horizontal number line and a vertical number line.

It is also sometimes called the **Cartesian Plane**, for its inventor, Descartes.



PARTS OF THE COORDINATE PLANE



ORDERED PAIRS

Each point in the Coordinate Plane corresponds to an **ordered pair**.

(3, -2)
↑ ↑
x-coordinate **y-coordinate**

The **x-coordinate** tells which way to go on the **x-axis**. (left or right)

The **y-coordinate** tells which way to go on the **y-axis**. (up or down)

It is called an **ordered pair** because there are two coordinates (a pair) and they are in a certain order.

The coordinates are in **ALPHABETICAL** order.

PLOTTING ORDERED PAIRS ON THE COORDINATE PLANE

The point in the plane that corresponds to an ordered pair is called the **graph** of the ordered pair.

Graph each ordered pair.

State the quadrant in which each pair lies.

ex1) **A (3, -2)** quadrant IV

ex2) **D (-2, 3)** quadrant II

ex3) **G (0, 9)** on y-axis

ex4) **M (-6, -8)** quadrant III

ex5) **N (-7, 0)** on x-axis

