## Cartesian Plane




## Who Do We Have to Thank?



A French mathematician, named René Descartes, (1596-1650) made using coordinates to identify a point on a grid, into a formal and popular method.

He also developed algebra and geometry (shape and space).

He is famous for saying:
"In my opinion, all things in nature occur mathematically."

## Parts of a Grid

Here is a simple grid, also known as a Cartesian Plane.
Click the hotspots to find out more!


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Shape A has been translated $\mathbf{3}$ squares to the right and
4 squares down to show shape $B$.
Can you work out the coordinates of the black point on shape A and shape $B$ ?

Reveal Answer
$(1,7)$ moved to $(4,3)$
Can you work out all the coordinates of shape B?


Reveal Answer
$(4,3)(8,3)(8,5)(4,5)$

## Using All Four Quadrants

Work out the secret message below by using the coordinates on the grid. Click for the coordinates.


| $(0,0)$ | $(6,1)$ | $(-7,0)$ |
| :--- | :--- | :--- |
| $(-7,4)$ | $(-7,-4)$ | $(6,1)$ |
| $(0,0)$ | $(2,4)$ | $(5,4)$ |
| $(0,3)$ | $(-3,2)$ | $(-7,4)$ |
| $(-6,-1)$ | $(-7,0)$ | $(6,1)$ |
| $(6,-5)$ | $(-6,-1)$ | $(-5,1)$ |
| $(-7,0)$ | $(-3,2)$ |  |

Reveal Answer
One is not a prime number.


