Continuous	discrete
definition: A set of data is said to be CONTINUOUS if the values belonging to the set	definition: A set of data is said to be diSCTETE if the values belonging to the set
 £XAMPLES: The height of a horse (could be any value within the range of horse heights). Time to complete a task (which could be measured to fractions of seconds). The outdoor temperature at noon (any value within possible temperatures ranges.) The speed of a car on White Oak Rd (assuming legal speed limits). 	 CRAMPLES: The number of people in your class (no fractional parts of a person). The number of TV sets in a home (no fractional parts of a TV set). The number of puppies in a liter (no fractional puppies). The number of questions on a math test (no incomplete questions).
Mote: Continuous data	Mote: Discrete data
function: In the graph of a continuous function,	function: In the graph of a discrete function,
since every point has meaning to the original problem.	and only these points have meaning to the original problem.
C_{RAPh}	Ceaph:

Comain: a set of input values consisting of	domain: a set of input values consisting of
IN PLAIN (NGLISH: A continuous function allows the x-values to be	IN PLAIN (NGLISH: A discrete function allows the x-values to be

^aWhy DO We CARE? When graphing a function, especially one related to a real-world situation, it is important to choose an appropriate domain (x-values) for the graph. For example, if a function represents the number of people left on an island at the end of each week in the **Survivor Game**, an appropriate domain would be positive integers. Hopefully, half of a person is not an appropriate answer for any of the weeks. The graph of the people remaining on the island would be a discrete graph, not a continuous graph.

discrete vs. Continuous functions

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From working with statistics, we know that data can be numerical (quantitative) or descriptive (qualitative). When data is numerical, it can also be discrete or Continuous.