

LAMC Fall Meeting 3

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A function from a set A to a set B is a map or a rule that assigns to each element in A an element in B . The rule can be expressed in words, as a picture, by a table of values, or a formula.

Example 1: Let S be the set of all students in the Junior circle (today). Let C be the set of all chairs in this room. Define a function from the set of students S to the set of chairs C that assigns each student the chair on which he or she sits.

1. Give two examples of elements in S :
2. Do we know the value of this function for every student? If not, give an example when the function is not defined.

Example 2: Let S be the set of all students in the Junior Circle (who are in class today). Let I be the set of instructors in the Junior Circle. Define a function $f : S \rightarrow I$ from the set of students S to the set of instructors I that assigns each student with the assistant they work with.

The value of the function f on an element s from S is denoted by $f(s)$.

1. List the elements of I .

$I =$ _____, _____, _____, _____

2. Compute the function for the following students: $f(\text{Gavin})=$
 $f(\text{Colin})=$

$f(\text{AJ}) =$

$f(\text{Miles}) =$

$f(\text{Eisa}) =$

3. Is there a student such that the value of the function for this student equals Preston?

4. Is $f(\text{Kristi})$ defined? Why or why not?