## **Functions**

A special type of relation in which a rule assigns each input with exactly one output.

| Function |    |   | Not a function                     |    |
|----------|----|---|------------------------------------|----|
|          |    |   | (9 has more than one output value) |    |
| Х        | У  |   | Х                                  | у  |
| -4       | -4 |   | 9                                  | 3  |
| 2        | 0  |   | 9                                  | -3 |
| 6        | 4  |   | 4                                  | 2  |
| 10       | 2  | ĺ | 5                                  | -2 |

Relation: a way in which things are paired together, connected, or "related".

Input: the value, variable, or quantity that determines another based on the relation or function rule



Change in y,rise,up / Change in x,run,across

Key words: every, per, each, for, division bars