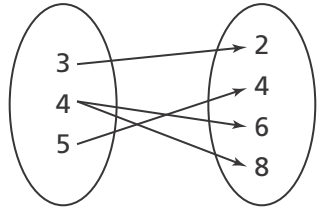
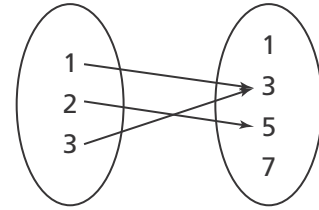


A relation is any set of ordered pairs. An arrow diagram can show the ordered pairs as a set of input and output values. A function is a rule that assigns to each input value *exactly one* output value.



This relation is **NOT** a function because the input 4 has two different output values, 6 and 8.

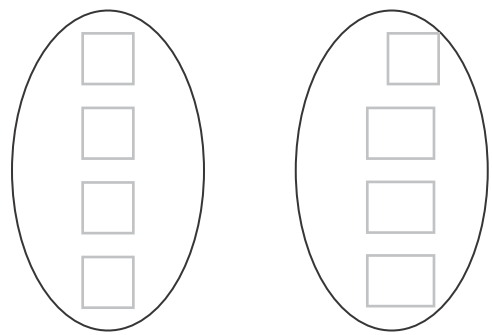


This relation is a function because each input value has exactly one output value.

Anika made a table to show her fees for babysitting. She thinks the relation shown in her table is a function. Is Anika correct? Explain.

Number of Hours	Fee (\$)
1	9
2	18
3	27
4	36

- Complete the arrow diagram with the input and output values from the table.



- Does each input have exactly one output?
- Is Anika correct? Explain.

On the Back!

- Pablo grew a plant for school and recorded the growth of the plant each week. He wrote ordered pairs to organize his data: (1, 5), (2, 8), (3, 8), (4, 11), (5, 15).

Is this relation a function? Explain.