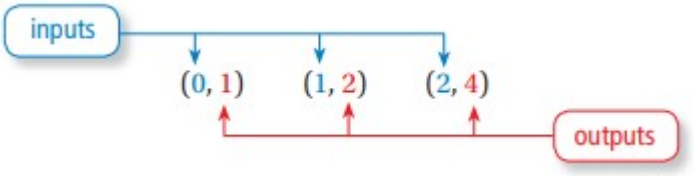
Section 7.1: Relations & Functions
In Class Notes

Name: _____

Ordered pairs can be used to show _____&_____.



A _____ pairs inputs with outputs. A relation can be represented by

_____ or a _____.

Key Ideas

Relations and Mapping Diagrams

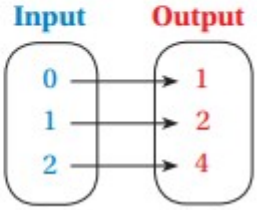
Ordered Pairs

$(0, 1)$

$(1, 2)$

$(2, 4)$

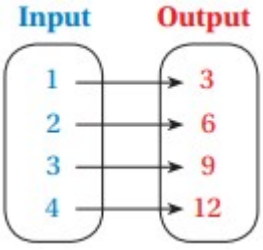
Mapping Diagram



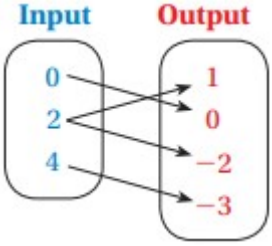
Listing Ordered Pairs of Relations

Ex:) List the ordered pairs shown in each mapping diagram. Notes:

A.

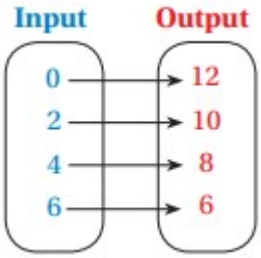


B.

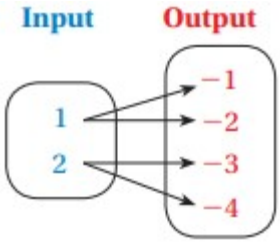


OYO:) List the ordered pairs shown in each mapping diagram. Notes:

A.



B.

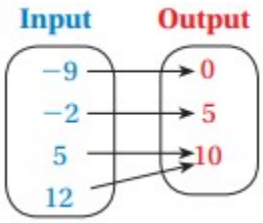


A relation that pairs each input with exactly one output is a _____.

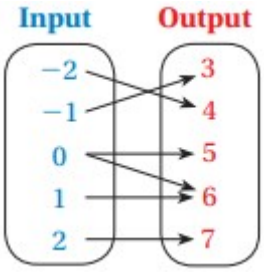
Determining Whether Relations Are Functions

Ex:) Determine whether each relation is a function. Notes:

A.



B.



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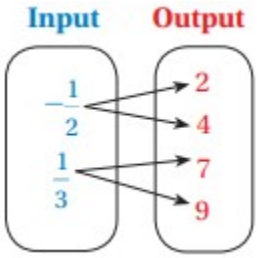
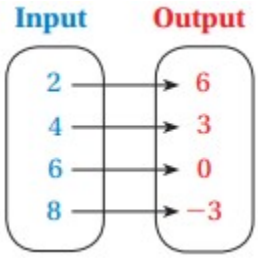


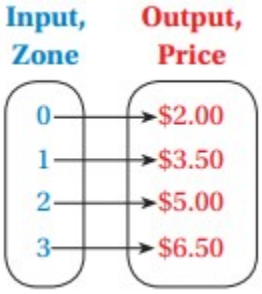
B.



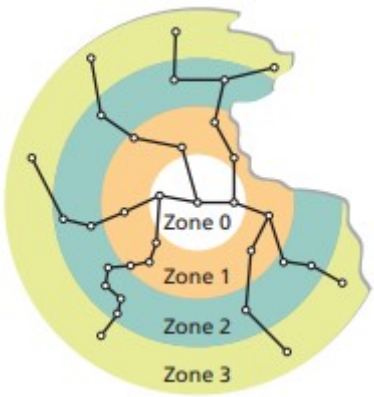
Modeling Real Life

Ex:) The mapping diagram represents the prices of one-way subway tickets to different zones of a city. Notes:

A. Is the price of a subway ticket a function of the zone number?

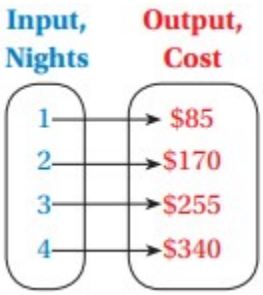


B. Describe the relationship between the price and the zone number.



OYO:) The mapping diagram represents the cost of reserving a hotel room for different numbers of nights.

Notes:



A. Is the cost a function of the number of nights reserved?

B. Describe the relationship between the cost and the number of nights reserved.