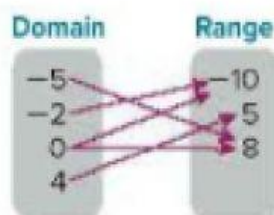


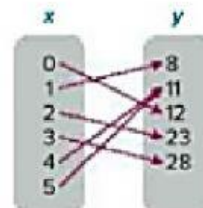
Teacher : Jisha

1. Express the relation in each table, graph, or mapping as a set of ordered pairs.



2.

DATA COLLECTION Rafaela collected data to determine the number of books her schoolmates were bringing home each evening. Her data is shown in the mapping. She let x be the number of textbooks brought home after school, and y be the number of students with x textbooks.



- a. Express the relation as a set of ordered pairs. _____
- b. What is the domain of the relation? _____
- c. What is the range of the relation? _____

3. A scientist performs an experiment with bacteria. Each hour, the number of bacteria remaining decreases.

Drag and drop the independent and dependent variables for this situation into the boxes.

The independent variable is the number of . The dependent variable is the number of .

4. Identify the independent and dependent variables of each relation.
- a. The average price of a ticket to an amusement park has steadily increased over time.
The average price of a ticket is the _____?_____ variable.
Time is the _____?_____ variable.
- b. The air pressure inside a soccer ball decreases with time.
Time is the _____?_____ variable.
Air pressure is the _____?_____ variable.
5. A fan has five settings, labeled from 1 to 5. Higher settings make the fan's blades rotate faster. The faster the blades rotate, the more electricity the fan uses.

Drag and drop the independent and dependent variables for this situation into each box.

The independent variable is . The dependent variable is .