Relations and Functions Worksheet

Name: _____   **Grade & Section:** _____

Date: _____

🧠 **I. Multiple Choice (Write the letter of the correct answer.)**

___1. Which of the following is **not** a function?
A. {(1, 2), (2, 3), (3, 4)}
B. {(a, 1), (b, 2), (c, 3)}
C. {(5, 1), (5, 2), (5, 3)}
D. {(0, 3), (2, 3), (4, 5)}

___2. The set of all first elements in a relation is called:
A. Range
B. Domain
C. Output
D. Codomain

___3. A function assigns _____ output(s) for each input.
A. two
B. many
C. exactly one
D. any number of

___4. What is the **range** of the relation {(2,4), (3,5), (4,6)}?
A. {2, 3, 4}
B. {4, 5, 6}
C. {3, 4, 5}
D. {2, 4, 6}

___5. What do you call the set of all second elements in a relation?
A. Domain
B. Input
C. Output
D. Co-input

✍️ **II. Identification**

Write the correct answer on the blank provided.

___1. A relation in which no x-value is repeated.
___2. A visual method to determine if a graph is a function.
___3. The set of ordered pairs.
___4. The value you input into a function.
___5. The result or output of a function.

🔗 III. Matching Type

Match **Column A** with the correct term in **Column B**. Write the letter of the answer.

Column A	Column B
1. Domain	A. y = 2x + 3
2. Function	B. {1, 2, 3, 4} (set of x-values)
3. Range	C. A rule that assigns exactly one output
4. Ordered Pair	D. {5, 6, 7, 8} (set of y-values)
5. Equation	E. (x, y)

✳️ IV. Word Bank

Complete the sentences by choosing the correct word from the **Word Bank** below.

Word Bank:

domain   range   function   relation   mapping

1. A _____ is a set of ordered pairs.

2. The set of inputs is called the _____.

3. A _____ pairs each input with only one output.

4. A _____ diagram helps illustrate how elements of the domain relate to the range.

5. The set of all outputs is called the _____.