Name: _____ Date: _____

Multiplication Input-Output Tables

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 1 of 10

Use the rule to fill in each table. A missing input is a missing factor: what number times the rule number gives the output? In the last two tables, find the rule first, then finish the table.

1. **Rule: Multiply by 2**

In	Out
1	2
	6
5	
6	
8	

2. **Rule: Multiply by 8**

In	Out
1	8
4	
5	
	56
9	

3. **Rule: Multiply by 9**

In	Out
1	9
2	
3	
	54
9	

4. **Rule: Multiply by 7**

In	Out
2	14
	21
4	
5	
6	

5. **Rule: Multiply by ____**

In	Out
3	9
6	18
7	21
8	24
10	

6. **Rule: Multiply by ____**

In	Out
5	30
6	36
7	42
9	54
10	

Multiplication Input-Output Tables - ANSWER KEY

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 1 of 10

Use the rule to fill in each table. A missing input is a missing factor: what number times the rule number gives the output? In the last two tables, find the rule first, then finish the table.

1. **Rule: Multiply by 2**

In	Out
1	2
3	6
5	**10**
6	**12**
8	**16**

2. **Rule: Multiply by 8**

In	Out
1	8
4	**32**
5	**40**
7	56
9	**72**

3. **Rule: Multiply by 9**

In	Out
1	9
2	**18**
3	**27**
6	54
9	**81**

4. **Rule: Multiply by 7**

In	Out
2	14
3	21
4	**28**
5	**35**
6	**42**

5. **Rule: Multiply by __3__**

In	Out
3	9
6	18
7	21
8	24
10	**30**

6. **Rule: Multiply by __6__**

In	Out
5	30
6	36
7	42
9	54
10	**60**