Name: _____ Date: _____

Multiplication Input-Output Tables

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 9 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 4**

In	Out
1	4
	24
7	
8	
10	

2. **Rule: Multiply by 7**

In	Out
1	7
5	
6	
	49
10	

3. **Rule: Multiply by 9**

In	Out
1	9
	36
7	
8	
10	

4. **Rule: Multiply by 2**

In	Out
4	8
5	
	14
8	
9	

5. **Rule: Multiply by ____**

In	Out
2	16
5	40
7	56
8	64
10	

6. **Rule: Multiply by ____**

In	Out
2	12
4	24
5	30
8	48
10	

Multiplication Input-Output Tables - ANSWER KEY

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 9 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 4**

In	Out
1	4
6	24
7	**28**
8	**32**
10	**40**

2. **Rule: Multiply by 7**

In	Out
1	7
5	**35**
6	**42**
7	49
10	**70**

3. **Rule: Multiply by 9**

In	Out
1	9
4	36
7	**63**
8	**72**
10	**90**

4. **Rule: Multiply by 2**

In	Out
4	8
5	**10**
7	14
8	**16**
9	**18**

5. **Rule: Multiply by** **8**

In	Out
2	16
5	40
7	56
8	64
10	**80**

6. **Rule: Multiply by** **6**

In	Out
2	12
4	24
5	30
8	48
10	**60**