Name: _____ Date: _____

Multiplication Input-Output Tables

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 8 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
2	8
	20
6	
9	
10	

2. **Rule: Multiply by 2**

In	Out
1	2
2	
4	
	12
10	

3. **Rule: Multiply by 6**

In	Out
1	6
2	
3	
	24
8	

4. **Rule: Multiply by 9**

In	Out
1	9
4	
	54
7	
10	

5. **Rule: Multiply by ____**

In	Out
2	6
3	9
6	18
8	24
9	

6. **Rule: Multiply by ____**

In	Out
2	14
4	28
7	49
9	63
10	

Multiplication Input-Output Tables - ANSWER KEY

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 8 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
2	8
5	20
6	**24**
9	**36**
10	**40**

2. **Rule: Multiply by 2**

In	Out
1	2
2	**4**
4	**8**
6	12
10	**20**

3. **Rule: Multiply by 6**

In	Out
1	6
2	**12**
3	**18**
4	24
8	**48**

4. **Rule: Multiply by 9**

In	Out
1	9
4	**36**
6	54
7	**63**
10	**90**

5. **Rule: Multiply by** **3**

In	Out
2	6
3	9
6	18
8	24
9	**27**

6. **Rule: Multiply by** **7**

In	Out
2	14
4	28
7	49
9	63
10	**70**