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	

Name: _____ Date: _____

Multiplication Input-Output Tables

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 2 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
5	20
6	
	32
9	
10	

2. **Rule: Multiply by 6**

In	Out
4	24
6	
	42
8	
10	

3. **Rule: Multiply by 2**

In	Out
3	6
4	
	10
7	
9	

4. **Rule: Multiply by 3**

In	Out
1	3
	12
5	
9	
10	

5. **Rule: Multiply by ____**

In	Out
1	9
4	36
5	45
8	72
9	

6. **Rule: Multiply by ____**

In	Out
2	10
5	25
6	30
7	35
10	

Name: _____ Date: _____

Multiplication Input-Output Tables

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 3 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 6**

In	Out
1	6
3	
4	
	36
9	

2. **Rule: Multiply by 4**

In	Out
1	4
4	
	24
8	
10	

3. **Rule: Multiply by 5**

In	Out
1	5
5	
8	
	45
10	

4. **Rule: Multiply by 9**

In	Out
1	9
3	
5	
	54
9	

5. **Rule: Multiply by ____**

In	Out
2	16
4	32
5	40
6	48
10	

6. **Rule: Multiply by ____**

In	Out
1	3
3	9
6	18
8	24
10	

Name: _____ Date: _____

Multiplication Input-Output Tables

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 4 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
	16
5	
9	
10	

2. **Rule: Multiply by 8**

In	Out
1	8
2	
7	
8	
	80

3. **Rule: Multiply by 2**

In	Out
2	4
3	
	14
8	
10	

4. **Rule: Multiply by 6**

In	Out
3	18
4	
5	
	48
10	

5. **Rule: Multiply by ____**

In	Out
1	9
3	27
4	36
5	45
10	

6. **Rule: Multiply by ____**

In	Out
3	21
5	35
6	42
8	56
10	

Name: _____ Date: _____

Multiplication Input-Output Tables

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 5 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 9**

In	Out
2	18
7	
	72
9	
10	

2. **Rule: Multiply by 8**

In	Out
3	24
5	
7	
9	
	80

3. **Rule: Multiply by 2**

In	Out
1	2
4	
5	
	12
7	

4. **Rule: Multiply by 5**

In	Out
4	20
5	
	35
8	
10	

5. **Rule: Multiply by ____**

In	Out
1	6
2	12
3	18
6	36
8	

6. **Rule: Multiply by ____**

In	Out
1	3
2	6
5	15
7	21
10	

Name: _____ Date: _____

Multiplication Input-Output Tables

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 6 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 6**

In	Out
1	6
3	
4	
	42
9	

2. **Rule: Multiply by 2**

In	Out
2	4
3	
4	
5	
	14

3. **Rule: Multiply by 9**

In	Out
1	9
3	
6	
8	
	81

4. **Rule: Multiply by 8**

In	Out
3	24
5	
	48
7	
9	

5. **Rule: Multiply by ____**

In	Out
2	14
5	35
6	42
7	49
9	

6. **Rule: Multiply by ____**

In	Out
1	4
2	8
3	12
7	28
10	

Name: _____ Date: _____

Multiplication Input-Output Tables

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 7 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 8**

In	Out
1	8
	16
4	
6	
10	

2. **Rule: Multiply by 5**

In	Out
1	5
4	
5	
	30
8	

3. **Rule: Multiply by 6**

In	Out
1	6
4	
5	
	48
10	

4. **Rule: Multiply by 9**

In	Out
2	18
3	
	36
6	
8	

5. **Rule: Multiply by ____**

In	Out
1	7
4	28
5	35
8	56
9	

6. **Rule: Multiply by ____**

In	Out
1	2
3	6
7	14
8	16
9	

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	

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	

Name: _____ Date: _____

Multiplication Input-Output Tables

Grade 3 | Completing input-output tables with a multiplication rule and finding the rule | Version 10 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 7**

In	Out
1	7
3	
	35
7	
9	

2. **Rule: Multiply by 3**

In	Out
1	3
	12
5	
8	
10	

3. **Rule: Multiply by 5**

In	Out
1	5
	20
7	
9	
10	

4. **Rule: Multiply by 4**

In	Out
1	4
2	
4	
9	
	40

5. **Rule: Multiply by ____**

In	Out
2	12
5	30
6	36
7	42
9	

6. **Rule: Multiply by ____**

In	Out
1	8
3	24
4	32
9	72
10	