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**

Multiplication Input-Output Tables - ANSWER KEY

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	**24**
8	32
9	**36**
10	**40**

2. **Rule: Multiply by 6**

In	Out
4	24
6	**36**
7	42
8	**48**
10	**60**

3. **Rule: Multiply by 2**

In	Out
3	6
4	**8**
5	10
7	**14**
9	**18**

4. **Rule: Multiply by 3**

In	Out
1	3
4	12
5	**15**
9	**27**
10	**30**

5. **Rule: Multiply by __9__**

In	Out
1	9
4	36
5	45
8	72
9	**81**

6. **Rule: Multiply by __5__**

In	Out
2	10
5	25
6	30
7	35
10	**50**

Multiplication Input-Output Tables - ANSWER KEY

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	**18**
4	**24**
6	36
9	**54**

2. **Rule: Multiply by 4**

In	Out
1	4
4	**16**
6	24
8	**32**
10	**40**

3. **Rule: Multiply by 5**

In	Out
1	5
5	**25**
8	**40**
9	45
10	**50**

4. **Rule: Multiply by 9**

In	Out
1	9
3	**27**
5	**45**
6	54
9	**81**

5. **Rule: Multiply by __8__**

In	Out
2	16
4	32
5	40
6	48
10	**80**

6. **Rule: Multiply by __3__**

In	Out
1	3
3	9
6	18
8	24
10	**30**

Multiplication Input-Output Tables - ANSWER KEY

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
4	16
5	**20**
9	**36**
10	**40**

2. **Rule: Multiply by 8**

In	Out
1	8
2	**16**
7	**56**
8	**64**
10	80

3. **Rule: Multiply by 2**

In	Out
2	4
3	**6**
7	14
8	**16**
10	**20**

4. **Rule: Multiply by 6**

In	Out
3	18
4	**24**
5	**30**
8	48
10	**60**

5. **Rule: Multiply by** **9**

In	Out
1	9
3	27
4	36
5	45
10	**90**

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

In	Out
3	21
5	35
6	42
8	56
10	**70**

Multiplication Input-Output Tables - ANSWER KEY

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	**63**
8	72
9	**81**
10	**90**

2. **Rule: Multiply by 8**

In	Out
3	24
5	**40**
7	**56**
9	**72**
10	80

3. **Rule: Multiply by 2**

In	Out
1	2
4	**8**
5	**10**
6	12
7	**14**

4. **Rule: Multiply by 5**

In	Out
4	20
5	**25**
7	35
8	**40**
10	**50**

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

In	Out
1	6
2	12
3	18
6	36
8	**48**

6. **Rule: Multiply by** **3**

In	Out
1	3
2	6
5	15
7	21
10	**30**

Multiplication Input-Output Tables - ANSWER KEY

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	**18**
4	**24**
7	42
9	**54**

2. **Rule: Multiply by 2**

In	Out
2	4
3	**6**
4	**8**
5	**10**
7	14

3. **Rule: Multiply by 9**

In	Out
1	9
3	**27**
6	**54**
8	**72**
9	81

4. **Rule: Multiply by 8**

In	Out
3	24
5	**40**
6	48
7	**56**
9	**72**

5. **Rule: Multiply by** **7**

In	Out
2	14
5	35
6	42
7	49
9	**63**

6. **Rule: Multiply by** **4**

In	Out
1	4
2	8
3	12
7	28
10	**40**

Multiplication Input-Output Tables - ANSWER KEY

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
2	16
4	**32**
6	**48**
10	**80**

2. **Rule: Multiply by 5**

In	Out
1	5
4	**20**
5	**25**
6	30
8	**40**

3. **Rule: Multiply by 6**

In	Out
1	6
4	**24**
5	**30**
8	48
10	**60**

4. **Rule: Multiply by 9**

In	Out
2	18
3	**27**
4	36
6	**54**
8	**72**

5. **Rule: Multiply by** **7**

In	Out
1	7
4	28
5	35
8	56
9	**63**

6. **Rule: Multiply by** **2**

In	Out
1	2
3	6
7	14
8	16
9	**18**

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**

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**

Multiplication Input-Output Tables - ANSWER KEY

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	**21**
5	35
7	**49**
9	**63**

2. **Rule: Multiply by 3**

In	Out
1	3
4	12
5	**15**
8	**24**
10	**30**

3. **Rule: Multiply by 5**

In	Out
1	5
4	20
7	**35**
9	**45**
10	**50**

4. **Rule: Multiply by 4**

In	Out
1	4
2	**8**
4	**16**
9	**36**
10	40

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

In	Out
2	12
5	30
6	36
7	42
9	**54**

6. **Rule: Multiply by** **8**

In	Out
1	8
3	24
4	32
9	72
10	**80**