Function Machine - Determining Rule

Name:

Determine which number sentence best matches the function machine.

1)

In	Out
90	92
5	7
59	61
8	10
1	3

If each input is 'Q' which rule could the function machine be using?

A. Q + 2 B. Q + 9
C. Q - 2 D. Q × 2

2)

In	Out
22	36
88	102
89	103
32	46
37	51

If each input is 'Q' which rule could the function machine be using?

A. Q × 4 B. Q + 3
C. Q × 6 D. Q + 14

3)

In	Out
9	36
5	20
10	40
6	24
7	28

If each input is 'Q' which rule could the function machine be using?

A. Q × 7 B. Q × 6
C. Q + 10 D. Q × 4

4)

In	Out
15	5
18	6
9	3
21	7
12	4

If each input is 'Q' which rule could the function machine be using?

A. Q - 7 B. Q + 3
C. Q ÷ 8 D. Q ÷ 3

5)

In	Out
42	38
5	1
49	45
91	87
40	36

If each input is 'Q' which rule could the function machine be using?

A. Q + 4 B. Q - 4
C. Q × 4 D. Q ÷ 8

6)

In	Out
3	27
4	36
7	63
6	54
5	45

If each input is 'Q' which rule could the function machine be using?

A. Q + 2 B. Q × 9
C. Q × 7 D. Q × 8

7)

In	Out
42	6
56	8
63	9
70	10
49	7

If each input is 'Q' which rule could the function machine be using?

A. Q ÷ 4 B. Q ÷ 7
C. Q ÷ 9 D. Q × 7

8)

In	Out
2	18
8	72
3	27
6	54
5	45

If each input is 'Q' which rule could the function machine be using?

A. Q + 9 B. Q - 9
C. Q ÷ 9 D. Q × 9

9)

In	Out
72	9
24	3
32	4
16	2
40	5

If each input is 'Q' which rule could the function machine be using?

A. Q + 8 B. Q ÷ 8
C. Q × 8 D. Q ÷ 2

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

1-9	89	78	67	56	44	33	22	11	0

Function Machine - Determining Rule

Name: **Answer Key**

Determine which number sentence best matches the function machine.

1)

In	Out
90	92
5	7
59	61
8	10
1	3

If each input is 'Q' which rule could the function machine be using?

A. Q + 2 B. Q + 9
C. Q - 2 D. Q × 2

2)

In	Out
22	36
88	102
89	103
32	46
37	51

If each input is 'Q' which rule could the function machine be using?

A. Q × 4 B. Q + 3
C. Q × 6 D. Q + 14

3)

In	Out
9	36
5	20
10	40
6	24
7	28

If each input is 'Q' which rule could the function machine be using?

A. Q × 7 B. Q × 6
C. Q + 10 D. Q × 4

4)

In	Out
15	5
18	6
9	3
21	7
12	4

If each input is 'Q' which rule could the function machine be using?

A. Q - 7 B. Q + 3
C. Q ÷ 8 D. Q ÷ 3

5)

In	Out
42	38
5	1
49	45
91	87
40	36

If each input is 'Q' which rule could the function machine be using?

A. Q + 4 B. Q - 4
C. Q × 4 D. Q ÷ 8

6)

In	Out
3	27
4	36
7	63
6	54
5	45

If each input is 'Q' which rule could the function machine be using?

A. Q + 2 B. Q × 9
C. Q × 7 D. Q × 8

7)

In	Out
42	6
56	8
63	9
70	10
49	7

If each input is 'Q' which rule could the function machine be using?

A. Q ÷ 4 B. Q ÷ 7
C. Q ÷ 9 D. Q × 7

8)

In	Out
2	18
8	72
3	27
6	54
5	45

If each input is 'Q' which rule could the function machine be using?

A. Q + 9 B. Q - 9
C. Q ÷ 9 D. Q × 9

9)

In	Out
72	9
24	3
32	4
16	2
40	5

If each input is 'Q' which rule could the function machine be using?

A. Q + 8 B. Q ÷ 8
C. Q × 8 D. Q ÷ 2

Answers

1. A
2. D
3. D
4. D
5. B
6. B
7. B
8. D
9. B

1-9	89	78	67	56	44	33	22	11	0