



Function Machine - Determining Rule

Name: _____

Determine which number sentence best matches the function machine.

In	Out
34	32
75	73
40	38
84	82
79	77

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

- A. $Q - 7$ B. $Q - 2$
 C. $Q - 8$ D. $Q + 2$

In	Out
3	6
10	20
9	18
8	16
7	14

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

- A. $Q \times 7$ B. $Q + 2$
 C. $Q \div 2$ D. $Q \times 2$

In	Out
89	79
68	58
104	94
98	88
47	37

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

- A. $Q - 2$ B. $Q - 10$
 C. $Q \div 7$ D. $Q - 3$

In	Out
5	9
78	82
90	94
23	27
29	33

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

- A. $Q \times 4$ B. $Q + 4$
 C. $Q + 7$ D. $Q - 4$

In	Out
60	74
2	16
66	80
40	54
62	76

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

- A. $Q \div 14$ B. $Q + 14$
 C. $Q \times 14$ D. $Q - 14$

In	Out
9	81
3	27
10	90
2	18
5	45

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

- A. $Q \div 9$ B. $Q \times 8$
 C. $Q \times 9$ D. $Q + 5$

In	Out
40	4
60	6
30	3
100	10
70	7

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

- A. $Q + 10$ B. $Q \div 10$
 C. $Q - 10$ D. $Q \div 8$

In	Out
8	24
4	12
9	27
5	15
7	21

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

- A. $Q - 3$ B. $Q \times 3$
 C. $Q + 3$ D. $Q \times 7$

In	Out
36	4
72	8
45	5
27	3
63	7

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

- A. $Q \div 3$ B. $Q + 9$
 C. $Q \div 9$ D. $Q - 2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____



Determine which number sentence best matches the function machine.

In	Out
34	32
75	73
40	38
84	82
79	77

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

- A. $Q - 7$
- B. $Q - 2$
- C. $Q - 8$
- D. $Q + 2$

In	Out
3	6
10	20
9	18
8	16
7	14

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

- A. $Q \times 7$
- B. $Q + 2$
- C. $Q \div 2$
- D. $Q \times 2$

In	Out
89	79
68	58
104	94
98	88
47	37

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

- A. $Q - 2$
- B. $Q - 10$
- C. $Q \div 7$
- D. $Q - 3$

In	Out
5	9
78	82
90	94
23	27
29	33

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

- A. $Q \times 4$
- B. $Q + 4$
- C. $Q + 7$
- D. $Q - 4$

In	Out
60	74
2	16
66	80
40	54
62	76

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

- A. $Q \div 14$
- B. $Q + 14$
- C. $Q \times 14$
- D. $Q - 14$

In	Out
9	81
3	27
10	90
2	18
5	45

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

- A. $Q \div 9$
- B. $Q \times 8$
- C. $Q \times 9$
- D. $Q + 5$

In	Out
40	4
60	6
30	3
100	10
70	7

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

- A. $Q + 10$
- B. $Q \div 10$
- C. $Q - 10$
- D. $Q \div 8$

In	Out
8	24
4	12
9	27
5	15
7	21

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

- A. $Q - 3$
- B. $Q \times 3$
- C. $Q + 3$
- D. $Q \times 7$

In	Out
36	4
72	8
45	5
27	3
63	7

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

- A. $Q \div 3$
- B. $Q + 9$
- C. $Q \div 9$
- D. $Q - 2$

Answers

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