Name:

Determine which number sentence best matches the function machine.

1)

In	Out
59	57
100	98
21	19
91	89
30	28

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

A. Q - 8   B. Q + 2
C. Q ÷ 2   D. Q - 2

2)

In	Out
10	40
9	36
8	32
4	16
6	24

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

A. Q × 5   B. Q × 4
C. Q × 9   D. Q - 4

3)

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

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

A. Q × 4   B. Q × 10
C. Q + 9   D. Q × 9

4)

In	Out
94	99
45	50
66	71
50	55
65	70

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

A. Q + 3   B. Q + 5
C. Q × 5   D. Q × 10

5)

In	Out
28	7
8	2
24	6
40	10
32	8

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

A. Q - 8   B. Q + 4
C. Q - 7   D. Q ÷ 4

6)

In	Out
12	2
24	4
54	9
30	5
60	10

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

A. Q - 6   B. Q ÷ 6
C. Q + 6   D. Q ÷ 3

7)

In	Out
38	26
93	81
87	75
111	99
15	3

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

A. Q ÷ 3   B. Q - 12
C. Q ÷ 10   D. Q ÷ 12

8)

In	Out
51	36
75	60
55	40
33	18
70	55

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

A. Q - 6   B. Q - 15
C. Q × 15   D. Q ÷ 2

9)

In	Out
80	84
22	26
95	99
34	38
23	27

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

A. Q × 2   B. Q + 4
C. Q × 7   D. Q + 5

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

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

Determine which number sentence best matches the function machine.

1)

In	Out
59	57
100	98
21	19
91	89
30	28

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

A. Q - 8   B. Q + 2
C. Q ÷ 2   D. Q - 2

2)

In	Out
10	40
9	36
8	32
4	16
6	24

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

A. Q × 5   B. Q × 4
C. Q × 9   D. Q - 4

3)

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

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

A. Q × 4   B. Q × 10
C. Q + 9   D. Q × 9

1.   **D**

2.   **B**

3.   **D**

4.   **B**

5.   **D**

6.   **B**

7.   **B**

8.   **B**

9.   **B**

4)

In	Out
94	99
45	50
66	71
50	55
65	70

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

A. Q + 3   B. Q + 5
C. Q × 5   D. Q × 10

5)

In	Out
28	7
8	2
24	6
40	10
32	8

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

A. Q - 8   B. Q + 4
C. Q - 7   D. Q ÷ 4

6)

In	Out
12	2
24	4
54	9
30	5
60	10

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

A. Q - 6   B. Q ÷ 6
C. Q + 6   D. Q ÷ 3

7)

In	Out
38	26
93	81
87	75
111	99
15	3

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

A. Q ÷ 3   B. Q - 12
C. Q ÷ 10   D. Q ÷ 12

8)

In	Out
51	36
75	60
55	40
33	18
70	55

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

A. Q - 6   B. Q - 15
C. Q × 15   D. Q ÷ 2

9)

In	Out
80	84
22	26
95	99
34	38
23	27

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

A. Q × 2   B. Q + 4
C. Q × 7   D. Q + 5

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