Function Machine - Determining Rule

Name:

Determine which number sentence best matches the function machine.

1)

in	out
102	86
63	47
54	38
18	2
72	56

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

A. Q + 16 B. Q - 16
C. Q ÷ 16 D. Q × 16

2)

in	out
18	6
27	9
12	4
21	7
15	5

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

A. Q - 4 B. Q ÷ 3
C. Q ÷ 7 D. Q - 9

3)

in	out
31	12
54	35
73	54
115	96
22	3

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

A. Q - 7 B. Q ÷ 19
C. Q - 19 D. Q + 19

4)

in	out
4	9
19	24
36	41
5	10
38	43

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

A. Q - 5 B. Q + 3
C. Q × 5 D. Q + 5

5)

in	out
10	100
7	70
9	90
2	20
6	60

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

A. Q × 4 B. Q + 6
C. Q + 10 D. Q × 10

6)

in	out
9	18
3	6
4	8
2	4
8	16

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

A. Q × 2 B. Q × 9
C. Q + 5 D. Q + 2

7)

in	out
35	47
9	21
54	66
8	20
28	40

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

A. Q - 12 B. Q + 12
C. Q × 2 D. Q ÷ 12

8)

in	out
48	59
9	20
59	70
22	33
67	78

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

A. Q - 11 B. Q ÷ 11
C. Q × 11 D. Q + 11

9)

in	out
32	4
24	3
16	2
72	9
80	10

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

A. Q + 8 B. Q - 6
C. Q - 8 D. Q ÷ 8

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.

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9)

in	out
32	4
24	3
16	2
72	9
80	10

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

A. Q + 8 B. Q - 6
C. Q - 8 D. Q ÷ 8

Answers

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

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