



Determine what rule the function machine is using.

Answers

1)

Input	Output
19	15
27	23
32	28
33	29
36	32

- A. Subtract 4
- B. Subtract 6
- C. Add 4
- D. Subtract 1

2)

In	Out
11	22
23	34
35	46
43	54
48	59

- A. Subtract 11
- B. Add 10
- C. Subtract 12
- D. Add 11

3)

In	Out
14	18
15	19
34	38
45	49
49	53

- A. Subtract 5
- B. Add 3
- C. Add 4
- D. Add 5

4)

In	Out
29	21
34	26
39	31
41	33
55	47

- A. Add 8
- B. Add 11
- C. Subtract 6
- D. Subtract 8

5)

Input	Output
22	13
26	17
39	30
48	39
50	41

- A. Subtract 6
- B. Subtract 9
- C. Subtract 10
- D. Add 9

6)

Input	Output
19	12
21	14
30	23
40	33
46	39

- A. Add 9
- B. Subtract 5
- C. Subtract 7
- D. Add 7

7)

Input	Output
20	16
22	18
23	19
42	38
44	40

- A. Subtract 4
- B. Add 6
- C. Subtract 6
- D. Add 4

8)

Input	Output
29	15
41	27
52	38
53	39
54	40

- A. Add 14
- B. Subtract 14
- C. Subtract 15
- D. Subtract 12

9)

In	Out
28	14
38	24
39	25
44	30
62	48

- A. Add 17
- B. Add 14
- C. Subtract 14
- D. Subtract 17

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



Determine what rule the function machine is using.

1)

Input	Output
19	15
27	23
32	28
33	29
36	32

- A. Subtract 4
- B. Subtract 6
- C. Add 4
- D. Subtract 1

2)

In	Out
11	22
23	34
35	46
43	54
48	59

- A. Subtract 11
- B. Add 10
- C. Subtract 12
- D. Add 11

3)

In	Out
14	18
15	19
34	38
45	49
49	53

- A. Subtract 5
- B. Add 3
- C. Add 4
- D. Add 5

4)

In	Out
29	21
34	26
39	31
41	33
55	47

- A. Add 8
- B. Add 11
- C. Subtract 6
- D. Subtract 8

5)

Input	Output
22	13
26	17
39	30
48	39
50	41

- A. Subtract 6
- B. Subtract 9
- C. Subtract 10
- D. Add 9

6)

Input	Output
19	12
21	14
30	23
40	33
46	39

- A. Add 9
- B. Subtract 5
- C. Subtract 7
- D. Add 7

7)

Input	Output
20	16
22	18
23	19
42	38
44	40

- A. Subtract 4
- B. Add 6
- C. Subtract 6
- D. Add 4

8)

Input	Output
29	15
41	27
52	38
53	39
54	40

- A. Add 14
- B. Subtract 14
- C. Subtract 15
- D. Subtract 12

9)

In	Out
28	14
38	24
39	25
44	30
62	48

- A. Add 17
- B. Add 14
- C. Subtract 14
- D. Subtract 17

Answers

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



Determine what rule the function machine is using.

Answers

1)

In	Out
19	15
27	23
32	28
33	29
36	32

- A. Subtract 4
- B. Subtract 6
- C.
- D. Subtract 1

2)

In	Out
11	22
23	34
35	46
43	54
48	59

- A. Subtract 11
- B. Add 10
- C.
- D. Add 11

3)

In	Out
14	18
15	19
34	38
45	49
49	53

- A. Subtract 5
- B.
- C. Add 4
- D. Add 5

4)

In	Out
29	21
34	26
39	31
41	33
55	47

- A. Add 8
- B. Add 11
- C.
- D. Subtract 8

5)

In	Out
22	13
26	17
39	30
48	39
50	41

- A. Subtract 6
- B. Subtract 9
- C.
- D. Add 9

6)

In	Out
19	12
21	14
30	23
40	33
46	39

- A. Add 9
- B.
- C. Subtract 7
- D. Add 7

7)

In	Out
20	16
22	18
23	19
42	38
44	40

- A. Subtract 4
- B. Add 6
- C.
- D. Add 4

8)

In	Out
29	15
41	27
52	38
53	39
54	40

- A. Add 14
- B. Subtract 14
- C. Subtract 15
- D.

9)

In	Out
28	14
38	24
39	25
44	30
62	48

- A. Add 17
- B.
- C. Subtract 14
- D. Subtract 17

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



Determine what rule the function machine is using.

Answers

1)

In	Out
20	32
33	45
34	46
36	48
47	59

- A. Subtract 12
- B. Add 12
- C. Subtract 14
- D. Add 14

2)

In	Out
26	12
28	14
49	35
54	40
61	47

- A. Add 15
- B. Add 14
- C. Subtract 11
- D. Subtract 14

3)

In	Out
10	16
23	29
26	32
40	46
43	49

- A. Add 6
- B. Subtract 6
- C. Add 9
- D. Add 5

4)

In	Out
18	22
29	33
31	35
33	37
49	53

- A. Add 1
- B. Subtract 4
- C. Subtract 5
- D. Add 4

5)

Input	Output
27	21
34	28
37	31
38	32
55	49

- A. Add 6
- B. Subtract 4
- C. Subtract 6
- D. Add 7

6)

In	Out
23	14
29	20
38	29
45	36
51	42

- A. Subtract 8
- B. Subtract 10
- C. Add 10
- D. Subtract 9

7)

In	Out
24	16
31	23
38	30
45	37
51	43

- A. Add 8
- B. Subtract 8
- C. Subtract 9
- D. Subtract 5

8)

Input	Output
24	13
25	14
48	37
49	38
53	42

- A. Subtract 13
- B. Subtract 11
- C. Add 11
- D. Subtract 9

9)

In	Out
27	15
31	19
42	30
51	39
58	46

- A. Add 13
- B. Subtract 12
- C. Add 12
- D. Subtract 11

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



Determine what rule the function machine is using.

1)

In	Out
20	32
33	45
34	46
36	48
47	59

- A. Subtract 12
- B. Add 12
- C. Subtract 14
- D. Add 14

2)

In	Out
26	12
28	14
49	35
54	40
61	47

- A. Add 15
- B. Add 14
- C. Subtract 11
- D. Subtract 14

3)

In	Out
10	16
23	29
26	32
40	46
43	49

- A. Add 6
- B. Subtract 6
- C. Add 9
- D. Add 5

4)

In	Out
18	22
29	33
31	35
33	37
49	53

- A. Add 1
- B. Subtract 4
- C. Subtract 5
- D. Add 4

5)

Input	Output
27	21
34	28
37	31
38	32
55	49

- A. Add 6
- B. Subtract 4
- C. Subtract 6
- D. Add 7

6)

In	Out
23	14
29	20
38	29
45	36
51	42

- A. Subtract 8
- B. Subtract 10
- C. Add 10
- D. Subtract 9

7)

In	Out
24	16
31	23
38	30
45	37
51	43

- A. Add 8
- B. Subtract 8
- C. Subtract 9
- D. Subtract 5

8)

Input	Output
24	13
25	14
48	37
49	38
53	42

- A. Subtract 13
- B. Subtract 11
- C. Add 11
- D. Subtract 9

9)

In	Out
27	15
31	19
42	30
51	39
58	46

- A. Add 13
- B. Subtract 12
- C. Add 12
- D. Subtract 11

Answers

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



Determine what rule the function machine is using.

Answers

1)

In	Out
20	32
33	45
34	46
36	48
47	59

- A. Subtract 12
- B. Add 12
- C. Subtract 14
- D.

2)

In	Out
26	12
28	14
49	35
54	40
61	47

- A. Add 15
- B.
- C. Subtract 11
- D. Subtract 14

3)

In	Out
10	16
23	29
26	32
40	46
43	49

- A. Add 6
- B. Subtract 6
- C.
- D. Add 5

4)

In	Out
18	22
29	33
31	35
33	37
49	53

- A. Add 1
- B. Subtract 4
- C.
- D. Add 4

5)

In	Out
27	21
34	28
37	31
38	32
55	49

- A. Add 6
- B. Subtract 4
- C. Subtract 6
- D.

6)

In	Out
23	14
29	20
38	29
45	36
51	42

- A. Subtract 8
- B.
- C. Add 10
- D. Subtract 9

7)

In	Out
24	16
31	23
38	30
45	37
51	43

- A. Add 8
- B. Subtract 8
- C.
- D. Subtract 5

8)

In	Out
24	13
25	14
48	37
49	38
53	42

- A. Subtract 13
- B. Subtract 11
- C.
- D. Subtract 9

9)

In	Out
27	15
31	19
42	30
51	39
58	46

- A. Add 13
- B. Subtract 12
- C.
- D. Subtract 11

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



Determine what rule the function machine is using.

Answers

1)

Input	Output
27	15
29	17
46	34
49	37
58	46

- A. Subtract 9
- B. Add 12
- C. Add 15
- D. Subtract 12

2)

In	Out
21	12
26	17
29	20
34	25
45	36

- A. Subtract 12
- B. Add 12
- C. Add 9
- D. Subtract 9

3)

In	Out
23	14
37	28
41	32
44	35
57	48

- A. Subtract 10
- B. Subtract 9
- C. Add 9
- D. Add 10

4)

In	Out
20	15
26	21
28	23
50	45
55	50

- A. Add 5
- B. Subtract 8
- C. Subtract 5
- D. Subtract 2

5)

In	Out
22	28
34	40
41	47
47	53
50	56

- A. Add 6
- B. Add 5
- C. Subtract 6
- D. Subtract 8

6)

In	Out
14	27
26	39
27	40
44	57
45	58

- A. Add 16
- B. Subtract 16
- C. Add 13
- D. Subtract 13

7)

In	Out
31	24
44	37
45	38
53	46
54	47

- A. Subtract 8
- B. Add 8
- C. Subtract 4
- D. Subtract 7

8)

Input	Output
10	24
14	28
40	54
46	60
48	62

- A. Subtract 14
- B. Add 14
- C. Subtract 15
- D. Add 15

9)

In	Out
12	23
18	29
22	33
33	44
50	61

- A. Add 8
- B. Add 11
- C. Subtract 11
- D. Subtract 12

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



Determine what rule the function machine is using.

1)

Input	Output
27	15
29	17
46	34
49	37
58	46

- A. Subtract 9
- B. Add 12
- C. Add 15
- D. Subtract 12

2)

In	Out
21	12
26	17
29	20
34	25
45	36

- A. Subtract 12
- B. Add 12
- C. Add 9
- D. Subtract 9

3)

In	Out
23	14
37	28
41	32
44	35
57	48

- A. Subtract 10
- B. Subtract 9
- C. Add 9
- D. Add 10

4)

In	Out
20	15
26	21
28	23
50	45
55	50

- A. Add 5
- B. Subtract 8
- C. Subtract 5
- D. Subtract 2

5)

In	Out
22	28
34	40
41	47
47	53
50	56

- A. Add 6
- B. Add 5
- C. Subtract 6
- D. Subtract 8

6)

In	Out
14	27
26	39
27	40
44	57
45	58

- A. Add 16
- B. Subtract 16
- C. Add 13
- D. Subtract 13

7)

In	Out
31	24
44	37
45	38
53	46
54	47

- A. Subtract 8
- B. Add 8
- C. Subtract 4
- D. Subtract 7

8)

Input	Output
10	24
14	28
40	54
46	60
48	62

- A. Subtract 14
- B. Add 14
- C. Subtract 15
- D. Add 15

9)

In	Out
12	23
18	29
22	33
33	44
50	61

- A. Add 8
- B. Add 11
- C. Subtract 11
- D. Subtract 12

Answers

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



Determine what rule the function machine is using.

Answers

1)

In	Out
27	15
29	17
46	34
49	37
58	46

- A. Subtract 9
- B.
- C. Add 15
- D. Subtract 12

2)

In	Out
21	12
26	17
29	20
34	25
45	36

- A. Subtract 12
- B. Add 12
- C.
- D. Subtract 9

3)

In	Out
23	14
37	28
41	32
44	35
57	48

- A. Subtract 10
- B. Subtract 9
- C.
- D. Add 10

4)

In	Out
20	15
26	21
28	23
50	45
55	50

- A. Add 5
- B. Subtract 8
- C. Subtract 5
- D.

5)

In	Out
22	28
34	40
41	47
47	53
50	56

- A. Add 6
- B. Add 5
- C. Subtract 6
- D.

6)

In	Out
14	27
26	39
27	40
44	57
45	58

- A. Add 16
- B.
- C. Add 13
- D. Subtract 13

7)

In	Out
31	24
44	37
45	38
53	46
54	47

- A. Subtract 8
- B. Add 8
- C.
- D. Subtract 7

8)

In	Out
10	24
14	28
40	54
46	60
48	62

- A. Subtract 14
- B. Add 14
- C.
- D. Add 15

9)

In	Out
12	23
18	29
22	33
33	44
50	61

- A. Add 8
- B. Add 11
- C.
- D. Subtract 12

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



Determine what rule the function machine is using.

Answers

1)

Input	Output
22	10
28	16
36	24
45	33
56	44

- A. Subtract 14
- B. Subtract 10
- C. Subtract 12
- D. Add 14

2)

Input	Output
21	11
22	12
23	13
27	17
30	20

- A. Subtract 10
- B. Subtract 12
- C. Subtract 7
- D. Add 10

3)

In	Out
17	24
24	31
30	37
32	39
47	54

- A. Add 5
- B. Add 7
- C. Add 9
- D. Subtract 7

4)

In	Out
20	12
21	13
42	34
46	38
47	39

- A. Subtract 8
- B. Add 11
- C. Add 8
- D. Subtract 11

5)

Input	Output
29	15
40	26
47	33
58	44
64	50

- A. Add 14
- B. Subtract 14
- C. Subtract 13
- D. Subtract 15

6)

In	Out
21	10
36	25
43	32
45	34
48	37

- A. Subtract 11
- B. Subtract 8
- C. Subtract 13
- D. Add 13

7)

Input	Output
31	17
34	20
36	22
42	28
55	41

- A. Subtract 12
- B. Subtract 17
- C. Add 17
- D. Subtract 14

8)

In	Out
10	14
11	15
15	19
17	21
24	28

- A. Subtract 4
- B. Add 5
- C. Add 4
- D. Add 3

9)

Input	Output
14	21
25	32
47	54
48	55
49	56

- A. Subtract 10
- B. Add 7
- C. Subtract 7
- D. Add 10

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



Determine what rule the function machine is using.

1)

Input	Output
22	10
28	16
36	24
45	33
56	44

- A. Subtract 14
- B. Subtract 10
- C. Subtract 12
- D. Add 14

2)

Input	Output
21	11
22	12
23	13
27	17
30	20

- A. Subtract 10
- B. Subtract 12
- C. Subtract 7
- D. Add 10

3)

In	Out
17	24
24	31
30	37
32	39
47	54

- A. Add 5
- B. Add 7
- C. Add 9
- D. Subtract 7

4)

In	Out
20	12
21	13
42	34
46	38
47	39

- A. Subtract 8
- B. Add 11
- C. Add 8
- D. Subtract 11

5)

Input	Output
29	15
40	26
47	33
58	44
64	50

- A. Add 14
- B. Subtract 14
- C. Subtract 13
- D. Subtract 15

6)

In	Out
21	10
36	25
43	32
45	34
48	37

- A. Subtract 11
- B. Subtract 8
- C. Subtract 13
- D. Add 13

7)

Input	Output
31	17
34	20
36	22
42	28
55	41

- A. Subtract 12
- B. Subtract 17
- C. Add 17
- D. Subtract 14

8)

In	Out
10	14
11	15
15	19
17	21
24	28

- A. Subtract 4
- B. Add 5
- C. Add 4
- D. Add 3

9)

Input	Output
14	21
25	32
47	54
48	55
49	56

- A. Subtract 10
- B. Add 7
- C. Subtract 7
- D. Add 10

Answers

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



Determine what rule the function machine is using.

Answers

1)

In	Out
22	10
28	16
36	24
45	33
56	44

- A. Subtract 14
- B.
- C. Subtract 12
- D. Add 14

2)

In	Out
21	11
22	12
23	13
27	17
30	20

- A. Subtract 10
- B. Subtract 12
- C.
- D. Add 10

3)

In	Out
17	24
24	31
30	37
32	39
47	54

- A. Add 5
- B. Add 7
- C.
- D. Subtract 7

4)

In	Out
20	12
21	13
42	34
46	38
47	39

- A. Subtract 8
- B. Add 11
- C. Add 8
- D.

5)

In	Out
29	15
40	26
47	33
58	44
64	50

- A. Add 14
- B. Subtract 14
- C. Subtract 13
- D.

6)

In	Out
21	10
36	25
43	32
45	34
48	37

- A. Subtract 11
- B. Subtract 8
- C.
- D. Add 13

7)

In	Out
31	17
34	20
36	22
42	28
55	41

- A. Subtract 12
- B.
- C. Add 17
- D. Subtract 14

8)

In	Out
10	14
11	15
15	19
17	21
24	28

- A. Subtract 4
- B.
- C. Add 4
- D. Add 3

9)

In	Out
14	21
25	32
47	54
48	55
49	56

- A. Subtract 10
- B. Add 7
- C. Subtract 7
- D.

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



Determine what rule the function machine is using.

Answers

1)

Input	Output
30	20
32	22
34	24
45	35
46	36

- A. Subtract 10
- B. Subtract 8
- C. Add 10
- D. Add 13

2)

In	Out
27	14
28	15
47	34
48	35
52	39

- A. Add 16
- B. Subtract 16
- C. Subtract 13
- D. Add 13

3)

Input	Output
24	20
32	28
33	29
39	35
51	47

- A. Subtract 4
- B. Add 5
- C. Subtract 3
- D. Add 4

4)

Input	Output
17	10
21	14
29	22
53	46
55	48

- A. Subtract 8
- B. Add 8
- C. Subtract 7
- D. Subtract 5

5)

Input	Output
19	13
27	21
33	27
41	35
48	42

- A. Subtract 7
- B. Add 7
- C. Subtract 6
- D. Add 6

6)

In	Out
34	21
48	35
50	37
52	39
57	44

- A. Add 13
- B. Subtract 11
- C. Add 14
- D. Subtract 13

7)

Input	Output
20	11
25	16
29	20
40	31
41	32

- A. Subtract 6
- B. Subtract 9
- C. Subtract 12
- D. Add 12

8)

Input	Output
12	18
14	20
18	24
25	31
37	43

- A. Subtract 6
- B. Add 6
- C. Subtract 9
- D. Add 4

9)

In	Out
19	34
35	50
38	53
44	59
49	64

- A. Subtract 17
- B. Add 15
- C. Add 17
- D. Subtract 15

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



Determine what rule the function machine is using.

1)

Input	Output
30	20
32	22
34	24
45	35
46	36

- A. Subtract 10
- B. Subtract 8
- C. Add 10
- D. Add 13

2)

In	Out
27	14
28	15
47	34
48	35
52	39

- A. Add 16
- B. Subtract 16
- C. Subtract 13
- D. Add 13

3)

Input	Output
24	20
32	28
33	29
39	35
51	47

- A. Subtract 4
- B. Add 5
- C. Subtract 3
- D. Add 4

4)

Input	Output
17	10
21	14
29	22
53	46
55	48

- A. Subtract 8
- B. Add 8
- C. Subtract 7
- D. Subtract 5

5)

Input	Output
19	13
27	21
33	27
41	35
48	42

- A. Subtract 7
- B. Add 7
- C. Subtract 6
- D. Add 6

6)

In	Out
34	21
48	35
50	37
52	39
57	44

- A. Add 13
- B. Subtract 11
- C. Add 14
- D. Subtract 13

7)

Input	Output
20	11
25	16
29	20
40	31
41	32

- A. Subtract 6
- B. Subtract 9
- C. Subtract 12
- D. Add 12

8)

Input	Output
12	18
14	20
18	24
25	31
37	43

- A. Subtract 6
- B. Add 6
- C. Subtract 9
- D. Add 4

9)

In	Out
19	34
35	50
38	53
44	59
49	64

- A. Subtract 17
- B. Add 15
- C. Add 17
- D. Subtract 15

Answers

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



Determine what rule the function machine is using.

Answers

1)

In	Out
30	20
32	22
34	24
45	35
46	36

- A. Subtract 10
- B. Subtract 8
- C.
- D. Add 13

2)

In	Out
27	14
28	15
47	34
48	35
52	39

- A. Add 16
- B.
- C. Subtract 13
- D. Add 13

3)

In	Out
24	20
32	28
33	29
39	35
51	47

- A. Subtract 4
- B.
- C. Subtract 3
- D. Add 4

4)

In	Out
17	10
21	14
29	22
53	46
55	48

- A. Subtract 8
- B. Add 8
- C. Subtract 7
- D.

5)

In	Out
19	13
27	21
33	27
41	35
48	42

- A. Subtract 7
- B.
- C. Subtract 6
- D. Add 6

6)

In	Out
34	21
48	35
50	37
52	39
57	44

- A. Add 13
- B.
- C. Add 14
- D. Subtract 13

7)

In	Out
20	11
25	16
29	20
40	31
41	32

- A. Subtract 6
- B. Subtract 9
- C. Subtract 12
- D.

8)

In	Out
12	18
14	20
18	24
25	31
37	43

- A. Subtract 6
- B. Add 6
- C. Subtract 9
- D.

9)

In	Out
19	34
35	50
38	53
44	59
49	64

- A. Subtract 17
- B. Add 15
- C. Add 17
- D.

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



Determine what rule the function machine is using.

Answers

1)

Input	Output
24	31
33	40
35	42
43	50
44	51

- A. Subtract 7
- B. Add 9
- C. Add 7
- D. Add 6

2)

Input	Output
12	25
20	33
23	36
33	46
37	50

- A. Subtract 16
- B. Add 13
- C. Subtract 13
- D. Add 16

3)

Input	Output
27	18
31	22
35	26
43	34
52	43

- A. Subtract 11
- B. Add 9
- C. Add 11
- D. Subtract 9

4)

In	Out
19	12
24	17
25	18
30	23
32	25

- A. Subtract 7
- B. Add 9
- C. Subtract 9
- D. Add 7

5)

In	Out
17	12
18	13
26	21
37	32
38	33

- A. Subtract 6
- B. Subtract 5
- C. Subtract 4
- D. Add 6

6)

In	Out
21	17
23	19
42	38
49	45
53	49

- A. Subtract 3
- B. Subtract 7
- C. Add 4
- D. Subtract 4

7)

Input	Output
29	41
41	53
43	55
44	56
45	57

- A. Subtract 12
- B. Add 12
- C. Add 15
- D. Subtract 15

8)

In	Out
32	24
47	39
48	40
57	49
58	50

- A. Subtract 7
- B. Add 8
- C. Subtract 8
- D. Add 10

9)

Input	Output
13	20
23	30
28	35
29	36
40	47

- A. Subtract 9
- B. Subtract 7
- C. Add 7
- D. Add 9

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



Determine what rule the function machine is using.

1)

Input	Output
24	31
33	40
35	42
43	50
44	51

- A. Subtract 7
- B. Add 9
- C. Add 7
- D. Add 6

2)

Input	Output
12	25
20	33
23	36
33	46
37	50

- A. Subtract 16
- B. Add 13
- C. Subtract 13
- D. Add 16

3)

Input	Output
27	18
31	22
35	26
43	34
52	43

- A. Subtract 11
- B. Add 9
- C. Add 11
- D. Subtract 9

4)

In	Out
19	12
24	17
25	18
30	23
32	25

- A. Subtract 7
- B. Add 9
- C. Subtract 9
- D. Add 7

5)

In	Out
17	12
18	13
26	21
37	32
38	33

- A. Subtract 6
- B. Subtract 5
- C. Subtract 4
- D. Add 6

6)

In	Out
21	17
23	19
42	38
49	45
53	49

- A. Subtract 3
- B. Subtract 7
- C. Add 4
- D. Subtract 4

7)

Input	Output
29	41
41	53
43	55
44	56
45	57

- A. Subtract 12
- B. Add 12
- C. Add 15
- D. Subtract 15

8)

In	Out
32	24
47	39
48	40
57	49
58	50

- A. Subtract 7
- B. Add 8
- C. Subtract 8
- D. Add 10

9)

Input	Output
13	20
23	30
28	35
29	36
40	47

- A. Subtract 9
- B. Subtract 7
- C. Add 7
- D. Add 9

Answers

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



Determine what rule the function machine is using.

Answers

1)

In	Out
24	31
33	40
35	42
43	50
44	51

- A. Subtract 7
- B.
- C. Add 7
- D. Add 6

2)

In	Out
12	25
20	33
23	36
33	46
37	50

- A. Subtract 16
- B. Add 13
- C. Subtract 13
- D.

3)

In	Out
27	18
31	22
35	26
43	34
52	43

- A. Subtract 11
- B. Add 9
- C.
- D. Subtract 9

4)

In	Out
19	12
24	17
25	18
30	23
32	25

- A. Subtract 7
- B. Add 9
- C.
- D. Add 7

5)

In	Out
17	12
18	13
26	21
37	32
38	33

- A. Subtract 6
- B. Subtract 5
- C.
- D. Add 6

6)

In	Out
21	17
23	19
42	38
49	45
53	49

- A. Subtract 3
- B.
- C. Add 4
- D. Subtract 4

7)

In	Out
29	41
41	53
43	55
44	56
45	57

- A. Subtract 12
- B. Add 12
- C.
- D. Subtract 15

8)

In	Out
32	24
47	39
48	40
57	49
58	50

- A. Subtract 7
- B. Add 8
- C. Subtract 8
- D.

9)

In	Out
13	20
23	30
28	35
29	36
40	47

- A. Subtract 9
- B. Subtract 7
- C. Add 7
- D.

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



Determine what rule the function machine is using.

Answers

1)

In	Out
31	18
34	21
47	34
50	37
57	44

- A. Add 14
- B. Add 13
- C. Subtract 11
- D. Subtract 13

2)

Input	Output
21	11
26	16
27	17
50	40
53	43

- A. Subtract 10
- B. Add 10
- C. Add 11
- D. Subtract 7

3)

Input	Output
25	11
37	23
45	31
59	45
62	48

- A. Subtract 14
- B. Add 14
- C. Add 17
- D. Subtract 13

4)

In	Out
23	11
41	29
46	34
47	35
48	36

- A. Add 13
- B. Add 12
- C. Subtract 13
- D. Subtract 12

5)

In	Out
20	12
22	14
34	26
43	35
49	41

- A. Subtract 9
- B. Add 8
- C. Subtract 7
- D. Subtract 8

6)

Input	Output
14	25
20	31
24	35
27	38
30	41

- A. Add 8
- B. Add 12
- C. Subtract 11
- D. Add 11

7)

In	Out
20	12
27	19
38	30
39	31
44	36

- A. Subtract 10
- B. Subtract 6
- C. Subtract 8
- D. Add 10

8)

Input	Output
23	17
25	19
26	20
32	26
56	50

- A. Subtract 7
- B. Add 6
- C. Subtract 6
- D. Add 7

9)

In	Out
10	25
14	29
18	33
35	50
39	54

- A. Add 12
- B. Subtract 18
- C. Add 18
- D. Add 15

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



Determine what rule the function machine is using.

1)

In	Out
31	18
34	21
47	34
50	37
57	44

- A. Add 14
- B. Add 13
- C. Subtract 11
- D. Subtract 13

2)

Input	Output
21	11
26	16
27	17
50	40
53	43

- A. Subtract 10
- B. Add 10
- C. Add 11
- D. Subtract 7

3)

Input	Output
25	11
37	23
45	31
59	45
62	48

- A. Subtract 14
- B. Add 14
- C. Add 17
- D. Subtract 13

4)

In	Out
23	11
41	29
46	34
47	35
48	36

- A. Add 13
- B. Add 12
- C. Subtract 13
- D. Subtract 12

5)

In	Out
20	12
22	14
34	26
43	35
49	41

- A. Subtract 9
- B. Add 8
- C. Subtract 7
- D. Subtract 8

6)

Input	Output
14	25
20	31
24	35
27	38
30	41

- A. Add 8
- B. Add 12
- C. Subtract 11
- D. Add 11

7)

In	Out
20	12
27	19
38	30
39	31
44	36

- A. Subtract 10
- B. Subtract 6
- C. Subtract 8
- D. Add 10

8)

Input	Output
23	17
25	19
26	20
32	26
56	50

- A. Subtract 7
- B. Add 6
- C. Subtract 6
- D. Add 7

9)

In	Out
10	25
14	29
18	33
35	50
39	54

- A. Add 12
- B. Subtract 18
- C. Add 18
- D. Add 15

Answers

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



Determine what rule the function machine is using.

1)

In	Out
31	18
34	21
47	34
50	37
57	44

- A. Add 14
- B.
- C. Subtract 11
- D. Subtract 13

2)

In	Out
21	11
26	16
27	17
50	40
53	43

- A. Subtract 10
- B. Add 10
- C. Add 11
- D.

3)

In	Out
25	11
37	23
45	31
59	45
62	48

- A. Subtract 14
- B. Add 14
- C. Add 17
- D.

4)

In	Out
23	11
41	29
46	34
47	35
48	36

- A. Add 13
- B. Add 12
- C.
- D. Subtract 12

5)

In	Out
20	12
22	14
34	26
43	35
49	41

- A. Subtract 9
- B. Add 8
- C.
- D. Subtract 8

6)

In	Out
14	25
20	31
24	35
27	38
30	41

- A. Add 8
- B. Add 12
- C.
- D. Add 11

7)

In	Out
20	12
27	19
38	30
39	31
44	36

- A. Subtract 10
- B.
- C. Subtract 8
- D. Add 10

8)

In	Out
23	17
25	19
26	20
32	26
56	50

- A. Subtract 7
- B.
- C. Subtract 6
- D. Add 7

9)

In	Out
10	25
14	29
18	33
35	50
39	54

- A. Add 12
- B. Subtract 18
- C.
- D. Add 15

Answers

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



Determine what rule the function machine is using.

Answers

1)

Input	Output
27	18
38	29
47	38
54	45
58	49

- A. Add 12
- B. Subtract 12
- C. Add 9
- D. Subtract 9

2)

In	Out
21	11
39	29
43	33
46	36
53	43

- A. Subtract 11
- B. Subtract 10
- C. Subtract 7
- D. Add 10

3)

In	Out
25	12
27	14
55	42
58	45
63	50

- A. Subtract 14
- B. Add 13
- C. Subtract 13
- D. Add 14

4)

In	Out
11	16
15	20
17	22
29	34
35	40

- A. Add 5
- B. Subtract 5
- C. Subtract 7
- D. Add 7

5)

In	Out
11	22
24	35
32	43
36	47
50	61

- A. Add 14
- B. Add 9
- C. Subtract 14
- D. Add 11

6)

In	Out
23	12
31	20
34	23
52	41
57	46

- A. Add 11
- B. Subtract 11
- C. Subtract 13
- D. Subtract 10

7)

In	Out
18	31
23	36
24	37
29	42
30	43

- A. Add 13
- B. Add 16
- C. Add 12
- D. Subtract 16

8)

Input	Output
10	14
26	30
36	40
44	48
47	51

- A. Add 4
- B. Subtract 6
- C. Subtract 4
- D. Add 1

9)

Input	Output
26	21
32	27
34	29
37	32
55	50

- A. Subtract 5
- B. Subtract 4
- C. Add 5
- D. Add 6

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



Determine what rule the function machine is using.

1)

Input	Output
27	18
38	29
47	38
54	45
58	49

- A. Add 12
- B. Subtract 12
- C. Add 9
- D. Subtract 9

2)

In	Out
21	11
39	29
43	33
46	36
53	43

- A. Subtract 11
- B. Subtract 10
- C. Subtract 7
- D. Add 10

3)

In	Out
25	12
27	14
55	42
58	45
63	50

- A. Subtract 14
- B. Add 13
- C. Subtract 13
- D. Add 14

4)

In	Out
11	16
15	20
17	22
29	34
35	40

- A. Add 5
- B. Subtract 5
- C. Subtract 7
- D. Add 7

5)

In	Out
11	22
24	35
32	43
36	47
50	61

- A. Add 14
- B. Add 9
- C. Subtract 14
- D. Add 11

6)

In	Out
23	12
31	20
34	23
52	41
57	46

- A. Add 11
- B. Subtract 11
- C. Subtract 13
- D. Subtract 10

7)

In	Out
18	31
23	36
24	37
29	42
30	43

- A. Add 13
- B. Add 16
- C. Add 12
- D. Subtract 16

8)

Input	Output
10	14
26	30
36	40
44	48
47	51

- A. Add 4
- B. Subtract 6
- C. Subtract 4
- D. Add 1

9)

Input	Output
26	21
32	27
34	29
37	32
55	50

- A. Subtract 5
- B. Subtract 4
- C. Add 5
- D. Add 6

Answers

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



Determine what rule the function machine is using.

Answers

1)

In	Out
27	18
38	29
47	38
54	45
58	49

- A. Add 12
- B. Subtract 12
- C.
- D. Subtract 9

2)

In	Out
21	11
39	29
43	33
46	36
53	43

- A. Subtract 11
- B. Subtract 10
- C.
- D. Add 10

3)

In	Out
25	12
27	14
55	42
58	45
63	50

- A. Subtract 14
- B. Add 13
- C. Subtract 13
- D.

4)

In	Out
11	16
15	20
17	22
29	34
35	40

- A. Add 5
- B. Subtract 5
- C. Subtract 7
- D.

5)

In	Out
11	22
24	35
32	43
36	47
50	61

- A. Add 14
- B.
- C. Subtract 14
- D. Add 11

6)

In	Out
23	12
31	20
34	23
52	41
57	46

- A. Add 11
- B. Subtract 11
- C.
- D. Subtract 10

7)

In	Out
18	31
23	36
24	37
29	42
30	43

- A. Add 13
- B. Add 16
- C. Add 12
- D.

8)

In	Out
10	14
26	30
36	40
44	48
47	51

- A. Add 4
- B. Subtract 6
- C.
- D. Add 1

9)

In	Out
26	21
32	27
34	29
37	32
55	50

- A. Subtract 5
- B. Subtract 4
- C.
- D. Add 6

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



Determine what rule the function machine is using.

Answers

1)

Input	Output
13	23
24	34
34	44
37	47
46	56

- A. Subtract 10
- B. Add 11
- C. Add 9
- D. Add 10

2)

In	Out
16	12
41	37
48	44
51	47
52	48

- A. Subtract 6
- B. Subtract 4
- C. Add 4
- D. Add 6

3)

Input	Output
20	33
24	37
29	42
30	43
32	45

- A. Add 16
- B. Add 12
- C. Subtract 16
- D. Add 13

4)

In	Out
26	36
33	43
39	49
42	52
49	59

- A. Add 13
- B. Add 7
- C. Add 10
- D. Subtract 13

5)

In	Out
12	21
25	34
37	46
40	49
46	55

- A. Subtract 9
- B. Subtract 12
- C. Add 9
- D. Add 7

6)

In	Out
12	26
19	33
20	34
29	43
44	58

- A. Subtract 14
- B. Add 15
- C. Add 14
- D. Add 13

7)

Input	Output
10	20
17	27
21	31
37	47
45	55

- A. Subtract 10
- B. Add 13
- C. Add 9
- D. Add 10

8)

In	Out
14	19
17	22
20	25
28	33
35	40

- A. Add 5
- B. Add 6
- C. Subtract 6
- D. Add 2

9)

Input	Output
45	30
50	35
52	37
55	40
56	41

- A. Subtract 15
- B. Add 15
- C. Subtract 18
- D. Add 18

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



Determine what rule the function machine is using.

1)

Input	Output
13	23
24	34
34	44
37	47
46	56

- A. Subtract 10
- B. Add 11
- C. Add 9
- D. Add 10

2)

In	Out
16	12
41	37
48	44
51	47
52	48

- A. Subtract 6
- B. Subtract 4
- C. Add 4
- D. Add 6

3)

Input	Output
20	33
24	37
29	42
30	43
32	45

- A. Add 16
- B. Add 12
- C. Subtract 16
- D. Add 13

4)

In	Out
26	36
33	43
39	49
42	52
49	59

- A. Add 13
- B. Add 7
- C. Add 10
- D. Subtract 13

5)

In	Out
12	21
25	34
37	46
40	49
46	55

- A. Subtract 9
- B. Subtract 12
- C. Add 9
- D. Add 7

6)

In	Out
12	26
19	33
20	34
29	43
44	58

- A. Subtract 14
- B. Add 15
- C. Add 14
- D. Add 13

7)

Input	Output
10	20
17	27
21	31
37	47
45	55

- A. Subtract 10
- B. Add 13
- C. Add 9
- D. Add 10

8)

In	Out
14	19
17	22
20	25
28	33
35	40

- A. Add 5
- B. Add 6
- C. Subtract 6
- D. Add 2

9)

Input	Output
45	30
50	35
52	37
55	40
56	41

- A. Subtract 15
- B. Add 15
- C. Subtract 18
- D. Add 18

Answers

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



Determine what rule the function machine is using.

Answers

1)

In	Out
13	23
24	34
34	44
37	47
46	56

- A. Subtract 10
- B.
- C. Add 9
- D. Add 10

2)

In	Out
16	12
41	37
48	44
51	47
52	48

- A. Subtract 6
- B. Subtract 4
- C.
- D. Add 6

3)

In	Out
20	33
24	37
29	42
30	43
32	45

- A. Add 16
- B. Add 12
- C.
- D. Add 13

4)

In	Out
26	36
33	43
39	49
42	52
49	59

- A. Add 13
- B. Add 7
- C. Add 10
- D.

5)

In	Out
12	21
25	34
37	46
40	49
46	55

- A. Subtract 9
- B. Subtract 12
- C. Add 9
- D.

6)

In	Out
12	26
19	33
20	34
29	43
44	58

- A. Subtract 14
- B.
- C. Add 14
- D. Add 13

7)

In	Out
10	20
17	27
21	31
37	47
45	55

- A. Subtract 10
- B.
- C. Add 9
- D. Add 10

8)

In	Out
14	19
17	22
20	25
28	33
35	40

- A. Add 5
- B. Add 6
- C.
- D. Add 2

9)

In	Out
45	30
50	35
52	37
55	40
56	41

- A. Subtract 15
- B. Add 15
- C.
- D. Add 18

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



Determine what rule the function machine is using.

Answers

1)

Input	Output
14	23
22	31
36	45
40	49
42	51

- A. Add 7
- B. Subtract 11
- C. Add 9
- D. Add 11

2)

In	Out
26	14
54	42
57	45
58	46
61	49

- A. Subtract 12
- B. Add 13
- C. Add 12
- D. Subtract 13

3)

Input	Output
12	24
16	28
18	30
25	37
46	58

- A. Add 13
- B. Add 12
- C. Subtract 13
- D. Subtract 12

4)

In	Out
10	15
11	16
22	27
35	40
43	48

- A. Add 5
- B. Subtract 5
- C. Add 8
- D. Add 4

5)

Input	Output
24	20
30	26
41	37
42	38
45	41

- A. Subtract 4
- B. Subtract 2
- C. Add 7
- D. Subtract 7

6)

Input	Output
32	18
34	20
40	26
51	37
53	39

- A. Add 14
- B. Subtract 16
- C. Subtract 14
- D. Subtract 13

7)

Input	Output
22	26
29	33
30	34
41	45
47	51

- A. Add 6
- B. Add 4
- C. Add 2
- D. Subtract 4

8)

Input	Output
10	14
17	21
41	45
44	48
48	52

- A. Add 4
- B. Subtract 4
- C. Subtract 6
- D. Add 6

9)

Input	Output
21	13
29	21
38	30
42	34
55	47

- A. Subtract 8
- B. Add 10
- C. Add 8
- D. Subtract 10

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



Determine what rule the function machine is using.

1)

Input	Output
14	23
22	31
36	45
40	49
42	51

- A. Add 7
- B. Subtract 11
- C. Add 9
- D. Add 11

2)

In	Out
26	14
54	42
57	45
58	46
61	49

- A. Subtract 12
- B. Add 13
- C. Add 12
- D. Subtract 13

3)

Input	Output
12	24
16	28
18	30
25	37
46	58

- A. Add 13
- B. Add 12
- C. Subtract 13
- D. Subtract 12

4)

In	Out
10	15
11	16
22	27
35	40
43	48

- A. Add 5
- B. Subtract 5
- C. Add 8
- D. Add 4

5)

Input	Output
24	20
30	26
41	37
42	38
45	41

- A. Subtract 4
- B. Subtract 2
- C. Add 7
- D. Subtract 7

6)

Input	Output
32	18
34	20
40	26
51	37
53	39

- A. Add 14
- B. Subtract 16
- C. Subtract 14
- D. Subtract 13

7)

Input	Output
22	26
29	33
30	34
41	45
47	51

- A. Add 6
- B. Add 4
- C. Add 2
- D. Subtract 4

8)

Input	Output
10	14
17	21
41	45
44	48
48	52

- A. Add 4
- B. Subtract 4
- C. Subtract 6
- D. Add 6

9)

Input	Output
21	13
29	21
38	30
42	34
55	47

- A. Subtract 8
- B. Add 10
- C. Add 8
- D. Subtract 10

Answers

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



Determine what rule the function machine is using.

Answers

1)

In	Out
14	23
22	31
36	45
40	49
42	51

- A. Add 7
- B. Subtract 11
- C. Add 9
- D.

2)

In	Out
26	14
54	42
57	45
58	46
61	49

- A. Subtract 12
- B. Add 13
- C. Add 12
- D.

3)

In	Out
12	24
16	28
18	30
25	37
46	58

- A. Add 13
- B. Add 12
- C. Subtract 13
- D.

4)

In	Out
10	15
11	16
22	27
35	40
43	48

- A. Add 5
- B.
- C. Add 8
- D. Add 4

5)

In	Out
24	20
30	26
41	37
42	38
45	41

- A. Subtract 4
- B. Subtract 2
- C.
- D. Subtract 7

6)

In	Out
32	18
34	20
40	26
51	37
53	39

- A. Add 14
- B.
- C. Subtract 14
- D. Subtract 13

7)

In	Out
22	26
29	33
30	34
41	45
47	51

- A. Add 6
- B. Add 4
- C.
- D. Subtract 4

8)

In	Out
10	14
17	21
41	45
44	48
48	52

- A. Add 4
- B. Subtract 4
- C. Subtract 6
- D.

9)

In	Out
21	13
29	21
38	30
42	34
55	47

- A. Subtract 8
- B.
- C. Add 8
- D. Subtract 10

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