



Determine what rule the function machine is using.

1)

Input (p)	Output (c)
44	38
22	16
52	46
49	43
55	49

2)

Input (j)	Output (i)
51	40
23	12
52	41
37	26
21	10

3)

Input (c)	Output (d)
32	45
43	56
40	53
13	26
36	49

4)

Input (n)	Output (s)
53	45
23	15
28	20
46	38
43	35

5)

Input (i)	Output (g)
49	61
25	37
22	34
28	40
30	42

6)

Input (a)	Output (h)
23	12
37	26
31	20
60	49
40	29

7)

In (t)	50	48	23	22
Out (n)	61	59	34	33

8)

In (q)	24	50	36	55
Out (n)	19	45	31	50

9)

In (w)	12	20	50	40
Out (i)	27	35	65	55

10)

In (j)	29	27	38	46
Out (y)	24	22	33	41

11)

In (m)	12	22	48	38
Out (z)	27	37	63	53

12)

In (t)	38	30	24	11
Out (q)	51	43	37	24

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine what rule the function machine is using.

1)

Input (p)	Output (c)
44	38
22	16
52	46
49	43
55	49

Subtract 6

2)

Input (j)	Output (i)
51	40
23	12
52	41
37	26
21	10

Subtract 11

3)

Input (c)	Output (d)
32	45
43	56
40	53
13	26
36	49

Add 13

4)

Input (n)	Output (s)
53	45
23	15
28	20
46	38
43	35

Subtract 8

5)

Input (i)	Output (g)
49	61
25	37
22	34
28	40
30	42

Add 12

6)

Input (a)	Output (h)
23	12
37	26
31	20
60	49
40	29

Subtract 11

7)

In (t)	50	48	23	22
Out (n)	61	59	34	33

Add 11

8)

In (q)	24	50	36	55
Out (n)	19	45	31	50

Subtract 5

9)

In (w)	12	20	50	40
Out (i)	27	35	65	55

Add 15

10)

In (j)	29	27	38	46
Out (y)	24	22	33	41

Subtract 5

11)

In (m)	12	22	48	38
Out (z)	27	37	63	53

Add 15

12)

In (t)	38	30	24	11
Out (q)	51	43	37	24

Add 13

Answers

1. Subtract 6

2. Subtract 11

3. Add 13

4. Subtract 8

5. Add 12

6. Subtract 11

7. Add 11

8. Subtract 5

9. Add 15

10. Subtract 5

11. Add 15

12. Add 13



Determine what rule the function machine is using.

Answers

Add 15	Subtract 6	Subtract 8	Add 11
Subtract 11	Subtract 11	Add 12	Subtract 5
Add 13			

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

1)

Input (p)	Output (c)
44	38
22	16
52	46
49	43
55	49

2)

Input (j)	Output (i)
51	40
23	12
52	41
37	26
21	10

3)

Input (c)	Output (d)
32	45
43	56
40	53
13	26
36	49

4)

Input (n)	Output (s)
53	45
23	15
28	20
46	38
43	35

5)

Input (i)	Output (g)
49	61
25	37
22	34
28	40
30	42

6)

Input (a)	Output (h)
23	12
37	26
31	20
60	49
40	29

7)

In (t)	50	48	23	22
Out (n)	61	59	34	33

8)

In (q)	24	50	36	55
Out (n)	19	45	31	50

9)

In (w)	12	20	50	40
Out (i)	27	35	65	55



Determine what rule the function machine is using.

1)

Input (p)	Output (g)
33	27
40	34
36	30
24	18
25	19

2)

Input (b)	Output (a)
50	61
28	39
18	29
35	46
41	52

3)

Input (l)	Output (w)
49	34
33	18
40	25
59	44
36	21

4)

Input (o)	Output (d)
44	56
35	47
21	33
34	46
28	40

5)

Input (d)	Output (q)
17	30
30	43
32	45
40	53
38	51

6)

Input (q)	Output (a)
23	34
18	29
11	22
29	40
32	43

7)

In (z)	51	60	40	39
Out (t)	37	46	26	25

8)

In (y)	44	40	52	33
Out (c)	37	33	45	26

9)

In (j)	41	36	26	53
Out (e)	36	31	21	48

10)

In (i)	29	19	43	22
Out (k)	44	34	58	37

11)

In (u)	46	15	49	34
Out (b)	61	30	64	49

12)

In (p)	44	42	21	45
Out (q)	38	36	15	39

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine what rule the function machine is using.

1)

Input (p)	Output (g)
33	27
40	34
36	30
24	18
25	19

Subtract 6

2)

Input (b)	Output (a)
50	61
28	39
18	29
35	46
41	52

Add 11

3)

Input (l)	Output (w)
49	34
33	18
40	25
59	44
36	21

Subtract 15

4)

Input (o)	Output (d)
44	56
35	47
21	33
34	46
28	40

Add 12

5)

Input (d)	Output (q)
17	30
30	43
32	45
40	53
38	51

Add 13

6)

Input (q)	Output (a)
23	34
18	29
11	22
29	40
32	43

Add 11

7)

In (z)	51	60	40	39
Out (t)	37	46	26	25

Subtract 14

8)

In (y)	44	40	52	33
Out (c)	37	33	45	26

Subtract 7

9)

In (j)	41	36	26	53
Out (e)	36	31	21	48

Subtract 5

10)

In (i)	29	19	43	22
Out (k)	44	34	58	37

Add 15

11)

In (u)	46	15	49	34
Out (b)	61	30	64	49

Add 15

12)

In (p)	44	42	21	45
Out (q)	38	36	15	39

Subtract 6

Answers

1. **Subtract 6**

2. **Add 11**

3. **Subtract 15**

4. **Add 12**

5. **Add 13**

6. **Add 11**

7. **Subtract 14**

8. **Subtract 7**

9. **Subtract 5**

10. **Add 15**

11. **Add 15**

12. **Subtract 6**



Determine what rule the function machine is using.

Answers

- | | | | |
|------------|------------|-------------|--------|
| Subtract 5 | Add 12 | Subtract 15 | Add 11 |
| Subtract 7 | Subtract 6 | Subtract 14 | Add 11 |
| Add 13 | | | |

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

1)

Input (p)	Output (g)
33	27
40	34
36	30
24	18
25	19

2)

Input (b)	Output (a)
50	61
28	39
18	29
35	46
41	52

3)

Input (l)	Output (w)
49	34
33	18
40	25
59	44
36	21

4)

Input (o)	Output (d)
44	56
35	47
21	33
34	46
28	40

5)

Input (d)	Output (q)
17	30
30	43
32	45
40	53
38	51

6)

Input (q)	Output (a)
23	34
18	29
11	22
29	40
32	43

7)

In (z)	51	60	40	39
Out (t)	37	46	26	25

8)

In (y)	44	40	52	33
Out (c)	37	33	45	26

9)

In (j)	41	36	26	53
Out (e)	36	31	21	48



Determine what rule the function machine is using.

Answers

1)

Input (o)	Output (j)
36	30
37	31
53	47
18	12
39	33

2)

Input (m)	Output (h)
35	24
47	36
61	50
45	34
29	18

3)

Input (g)	Output (f)
33	46
31	44
20	33
18	31
21	34

4)

Input (j)	Output (t)
15	21
35	41
34	40
38	44
37	43

5)

Input (h)	Output (l)
27	36
32	41
45	54
40	49
49	58

6)

Input (z)	Output (j)
10	25
43	58
20	35
28	43
18	33

7)

In (s)	61	60	34	25
Out (q)	47	46	20	11

8)

In (g)	16	12	21	41
Out (w)	23	19	28	48

9)

In (e)	46	39	33	25
Out (g)	41	34	28	20

10)

In (a)	30	28	11	41
Out (e)	39	37	20	50

11)

In (j)	47	60	45	46
Out (w)	36	49	34	35

12)

In (k)	27	26	42	52
Out (g)	22	21	37	47

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine what rule the function machine is using.

1)

Input (o)	Output (j)
36	30
37	31
53	47
18	12
39	33

Subtract 6

2)

Input (m)	Output (h)
35	24
47	36
61	50
45	34
29	18

Subtract 11

3)

Input (g)	Output (f)
33	46
31	44
20	33
18	31
21	34

Add 13

4)

Input (j)	Output (t)
15	21
35	41
34	40
38	44
37	43

Add 6

5)

Input (h)	Output (l)
27	36
32	41
45	54
40	49
49	58

Add 9

6)

Input (z)	Output (j)
10	25
43	58
20	35
28	43
18	33

Add 15

7)

In (s)	61	60	34	25
Out (q)	47	46	20	11

Subtract 14

8)

In (g)	16	12	21	41
Out (w)	23	19	28	48

Add 7

9)

In (e)	46	39	33	25
Out (g)	41	34	28	20

Subtract 5

10)

In (a)	30	28	11	41
Out (e)	39	37	20	50

Add 9

11)

In (j)	47	60	45	46
Out (w)	36	49	34	35

Subtract 11

12)

In (k)	27	26	42	52
Out (g)	22	21	37	47

Subtract 5

Answers

1. Subtract 6

2. Subtract 11

3. Add 13

4. Add 6

5. Add 9

6. Add 15

7. Subtract 14

8. Add 7

9. Subtract 5

10. Add 9

11. Subtract 11

12. Subtract 5



Determine what rule the function machine is using.

Answers

Subtract 14	Add 7	Add 9	Subtract 6
Subtract 11	Subtract 5	Add 6	Add 13
Add 15			

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

1)

Input (o)	Output (j)
36	30
37	31
53	47
18	12
39	33

2)

Input (m)	Output (h)
35	24
47	36
61	50
45	34
29	18

3)

Input (g)	Output (f)
33	46
31	44
20	33
18	31
21	34

4)

Input (j)	Output (t)
15	21
35	41
34	40
38	44
37	43

5)

Input (h)	Output (l)
27	36
32	41
45	54
40	49
49	58

6)

Input (z)	Output (j)
10	25
43	58
20	35
28	43
18	33

7)

In (s)	61	60	34	25
Out (q)	47	46	20	11

8)

In (g)	16	12	21	41
Out (w)	23	19	28	48

9)

In (e)	46	39	33	25
Out (g)	41	34	28	20



Determine what rule the function machine is using.

1)

Input (s)	Output (w)
29	21
49	41
42	34
48	40
46	38

2)

Input (r)	Output (b)
38	25
32	19
34	21
44	31
42	29

3)

Input (f)	Output (r)
45	55
25	35
41	51
40	50
11	21

4)

Input (a)	Output (t)
15	28
21	34
31	44
29	42
32	45

5)

Input (w)	Output (r)
33	38
44	49
35	40
23	28
17	22

6)

Input (c)	Output (j)
48	55
10	17
31	38
40	47
43	50

7)

In (n)	50	23	29	30
Out (p)	55	28	34	35

8)

In (c)	16	37	27	45
Out (q)	30	51	41	59

9)

In (m)	34	20	27	54
Out (b)	29	15	22	49

10)

In (b)	61	51	42	50
Out (y)	47	37	28	36

11)

In (e)	27	36	43	60
Out (u)	17	26	33	50

12)

In (l)	46	19	28	32
Out (a)	40	13	22	26

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine what rule the function machine is using.

1)

Input (s)	Output (w)
29	21
49	41
42	34
48	40
46	38

Subtract 8

2)

Input (r)	Output (b)
38	25
32	19
34	21
44	31
42	29

Subtract 13

3)

Input (f)	Output (r)
45	55
25	35
41	51
40	50
11	21

Add 10

4)

Input (a)	Output (t)
15	28
21	34
31	44
29	42
32	45

Add 13

5)

Input (w)	Output (r)
33	38
44	49
35	40
23	28
17	22

Add 5

6)

Input (c)	Output (j)
48	55
10	17
31	38
40	47
43	50

Add 7

7)

In (n)	50	23	29	30
Out (p)	55	28	34	35

Add 5

8)

In (c)	16	37	27	45
Out (q)	30	51	41	59

Add 14

9)

In (m)	34	20	27	54
Out (b)	29	15	22	49

Subtract 5

10)

In (b)	61	51	42	50
Out (y)	47	37	28	36

Subtract 14

11)

In (e)	27	36	43	60
Out (u)	17	26	33	50

Subtract 10

12)

In (l)	46	19	28	32
Out (a)	40	13	22	26

Subtract 6

Answers

1. Subtract 8

2. Subtract 13

3. Add 10

4. Add 13

5. Add 5

6. Add 7

7. Add 5

8. Add 14

9. Subtract 5

10. Subtract 14

11. Subtract 10

12. Subtract 6



Determine what rule the function machine is using.

Answers

Subtract 8

Add 10

Subtract 13

Add 5

Add 7

Add 14

Add 13

Add 5

Subtract 5

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

1)

Input (s)	Output (w)
29	21
49	41
42	34
48	40
46	38

2)

Input (r)	Output (b)
38	25
32	19
34	21
44	31
42	29

3)

Input (f)	Output (r)
45	55
25	35
41	51
40	50
11	21

4)

Input (a)	Output (t)
15	28
21	34
31	44
29	42
32	45

5)

Input (w)	Output (r)
33	38
44	49
35	40
23	28
17	22

6)

Input (c)	Output (j)
48	55
10	17
31	38
40	47
43	50

7)

In (n)	50	23	29	30
Out (p)	55	28	34	35

8)

In (c)	16	37	27	45
Out (q)	30	51	41	59

9)

In (m)	34	20	27	54
Out (b)	29	15	22	49



Determine what rule the function machine is using.

1)

Input (z)	Output (q)
37	45
48	56
29	37
50	58
10	18

2)

Input (f)	Output (h)
34	26
54	46
36	28
48	40
37	29

3)

Input (g)	Output (h)
13	22
41	50
46	55
25	34
40	49

4)

Input (p)	Output (a)
30	39
36	45
47	56
19	28
32	41

5)

Input (l)	Output (o)
63	48
29	14
44	29
43	28
47	32

6)

Input (t)	Output (l)
17	11
53	47
42	36
51	45
46	40

7)

In (m)	23	34	31	20
Out (k)	17	28	25	14

8)

In (e)	37	24	20	34
Out (s)	46	33	29	43

9)

In (y)	17	41	24	30
Out (i)	22	46	29	35

10)

In (w)	38	49	34	52
Out (t)	25	36	21	39

11)

In (g)	16	24	45	38
Out (v)	25	33	54	47

12)

In (q)	49	34	12	32
Out (y)	62	47	25	45

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine what rule the function machine is using.

1)

Input (z)	Output (q)
37	45
48	56
29	37
50	58
10	18

Add 8

2)

Input (f)	Output (h)
34	26
54	46
36	28
48	40
37	29

Subtract 8

3)

Input (g)	Output (h)
13	22
41	50
46	55
25	34
40	49

Add 9

4)

Input (p)	Output (a)
30	39
36	45
47	56
19	28
32	41

Add 9

5)

Input (l)	Output (o)
63	48
29	14
44	29
43	28
47	32

Subtract 15

6)

Input (t)	Output (l)
17	11
53	47
42	36
51	45
46	40

Subtract 6

7)

In (m)	23	34	31	20
Out (k)	17	28	25	14

Subtract 6

8)

In (e)	37	24	20	34
Out (s)	46	33	29	43

Add 9

9)

In (y)	17	41	24	30
Out (i)	22	46	29	35

Add 5

10)

In (w)	38	49	34	52
Out (t)	25	36	21	39

Subtract 13

11)

In (g)	16	24	45	38
Out (v)	25	33	54	47

Add 9

12)

In (q)	49	34	12	32
Out (y)	62	47	25	45

Add 13

Answers

1. Add 8

2. Subtract 8

3. Add 9

4. Add 9

5. Subtract 15

6. Subtract 6

7. Subtract 6

8. Add 9

9. Add 5

10. Subtract 13

11. Add 9

12. Add 13



Determine what rule the function machine is using.

Answers

Subtract 8

Subtract 6

Subtract 6

Add 9

Subtract 15

Add 8

Add 9

Add 5

Add 9

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

1)

Input (z)	Output (q)
37	45
48	56
29	37
50	58
10	18

2)

Input (f)	Output (h)
34	26
54	46
36	28
48	40
37	29

3)

Input (g)	Output (h)
13	22
41	50
46	55
25	34
40	49

4)

Input (p)	Output (a)
30	39
36	45
47	56
19	28
32	41

5)

Input (l)	Output (o)
63	48
29	14
44	29
43	28
47	32

6)

Input (t)	Output (l)
17	11
53	47
42	36
51	45
46	40

7)

In (m)	23	34	31	20
Out (k)	17	28	25	14

8)

In (e)	37	24	20	34
Out (s)	46	33	29	43

9)

In (y)	17	41	24	30
Out (i)	22	46	29	35



Determine what rule the function machine is using.

Answers

1)

Input (j)	Output (d)
18	27
31	40
46	55
49	58
25	34

2)

Input (c)	Output (l)
20	35
12	27
50	65
21	36
33	48

3)

Input (c)	Output (b)
56	46
52	42
49	39
34	24
45	35

4)

Input (v)	Output (j)
13	24
48	59
34	45
35	46
43	54

5)

Input (g)	Output (h)
46	33
35	22
57	44
56	43
62	49

6)

Input (e)	Output (f)
19	31
43	55
31	43
25	37
26	38

7)

In (g)	50	28	44	13
Out (c)	55	33	49	18

8)

In (a)	24	26	59	53
Out (p)	14	16	49	43

9)

In (y)	60	36	59	45
Out (q)	49	25	48	34

10)

In (e)	34	33	28	42
Out (j)	21	20	15	29

11)

In (i)	44	20	24	17
Out (h)	54	30	34	27

12)

In (c)	54	39	30	35
Out (f)	49	34	25	30

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine what rule the function machine is using.

1)

Input (j)	Output (d)
18	27
31	40
46	55
49	58
25	34

Add 9

2)

Input (c)	Output (l)
20	35
12	27
50	65
21	36
33	48

Add 15

3)

Input (c)	Output (b)
56	46
52	42
49	39
34	24
45	35

Subtract 10

4)

Input (v)	Output (j)
13	24
48	59
34	45
35	46
43	54

Add 11

5)

Input (g)	Output (h)
46	33
35	22
57	44
56	43
62	49

Subtract 13

6)

Input (e)	Output (f)
19	31
43	55
31	43
25	37
26	38

Add 12

7)

In (g)	50	28	44	13
Out (c)	55	33	49	18

Add 5

8)

In (a)	24	26	59	53
Out (p)	14	16	49	43

Subtract 10

9)

In (y)	60	36	59	45
Out (q)	49	25	48	34

Subtract 11

10)

In (e)	34	33	28	42
Out (j)	21	20	15	29

Subtract 13

11)

In (i)	44	20	24	17
Out (h)	54	30	34	27

Add 10

12)

In (c)	54	39	30	35
Out (f)	49	34	25	30

Subtract 5

Answers

1. Add 9

2. Add 15

3. Subtract 10

4. Add 11

5. Subtract 13

6. Add 12

7. Add 5

8. Subtract 10

9. Subtract 11

10. Subtract 13

11. Add 10

12. Subtract 5



Determine what rule the function machine is using.

Answers

Subtract 10	Add 12	Add 15	Subtract 11
Subtract 10	Add 5	Add 11	Subtract 13
Add 9			

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

1)

Input (j)	Output (d)
18	27
31	40
46	55
49	58
25	34

2)

Input (c)	Output (l)
20	35
12	27
50	65
21	36
33	48

3)

Input (c)	Output (b)
56	46
52	42
49	39
34	24
45	35

4)

Input (v)	Output (j)
13	24
48	59
34	45
35	46
43	54

5)

Input (g)	Output (h)
46	33
35	22
57	44
56	43
62	49

6)

Input (e)	Output (f)
19	31
43	55
31	43
25	37
26	38

7)

In (g)	50	28	44	13
Out (c)	55	33	49	18

8)

In (a)	24	26	59	53
Out (p)	14	16	49	43

9)

In (y)	60	36	59	45
Out (q)	49	25	48	34



Determine what rule the function machine is using.

1)

Input (b)	Output (d)
17	12
52	47
53	48
37	32
36	31

2)

Input (i)	Output (m)
29	23
53	47
35	29
17	11
23	17

3)

Input (i)	Output (m)
24	33
14	23
38	47
17	26
29	38

4)

Input (j)	Output (y)
42	30
41	29
53	41
33	21
43	31

5)

Input (z)	Output (y)
28	36
27	35
41	49
24	32
32	40

6)

Input (j)	Output (b)
26	11
50	35
41	26
54	39
56	41

7)

In (d)	26	50	30	24
Out (b)	37	61	41	35

8)

In (a)	30	43	19	12
Out (u)	40	53	29	22

9)

In (c)	38	34	42	32
Out (z)	30	26	34	24

10)

In (t)	34	37	15	10
Out (n)	44	47	25	20

11)

In (p)	37	43	50	45
Out (i)	52	58	65	60

12)

In (d)	38	36	29	60
Out (n)	24	22	15	46

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine what rule the function machine is using.

1)

Input (b)	Output (d)
17	12
52	47
53	48
37	32
36	31

Subtract 5

2)

Input (i)	Output (m)
29	23
53	47
35	29
17	11
23	17

Subtract 6

3)

Input (i)	Output (m)
24	33
14	23
38	47
17	26
29	38

Add 9

4)

Input (j)	Output (y)
42	30
41	29
53	41
33	21
43	31

Subtract 12

5)

Input (z)	Output (y)
28	36
27	35
41	49
24	32
32	40

Add 8

6)

Input (j)	Output (b)
26	11
50	35
41	26
54	39
56	41

Subtract 15

7)

In (d)	26	50	30	24
Out (b)	37	61	41	35

Add 11

8)

In (a)	30	43	19	12
Out (u)	40	53	29	22

Add 10

9)

In (c)	38	34	42	32
Out (z)	30	26	34	24

Subtract 8

10)

In (t)	34	37	15	10
Out (n)	44	47	25	20

Add 10

11)

In (p)	37	43	50	45
Out (i)	52	58	65	60

Add 15

12)

In (d)	38	36	29	60
Out (n)	24	22	15	46

Subtract 14

Answers

1. Subtract 5

2. Subtract 6

3. Add 9

4. Subtract 12

5. Add 8

6. Subtract 15

7. Add 11

8. Add 10

9. Subtract 8

10. Add 10

11. Add 15

12. Subtract 14



Determine what rule the function machine is using.

Answers

- | | | | |
|-------------|--------|------------|-------------|
| Subtract 15 | Add 10 | Add 8 | Subtract 12 |
| Subtract 8 | Add 9 | Subtract 6 | Subtract 5 |
| Add 11 | | | |

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

1)

Input (b)	Output (d)
17	12
52	47
53	48
37	32
36	31

2)

Input (i)	Output (m)
29	23
53	47
35	29
17	11
23	17

3)

Input (i)	Output (m)
24	33
14	23
38	47
17	26
29	38

4)

Input (j)	Output (y)
42	30
41	29
53	41
33	21
43	31

5)

Input (z)	Output (y)
28	36
27	35
41	49
24	32
32	40

6)

Input (j)	Output (b)
26	11
50	35
41	26
54	39
56	41

7)

In (d)	26	50	30	24
Out (b)	37	61	41	35

8)

In (a)	30	43	19	12
Out (u)	40	53	29	22

9)

In (c)	38	34	42	32
Out (z)	30	26	34	24



Determine what rule the function machine is using.

1)

Input (z)	Output (k)
54	49
18	13
38	33
41	36
39	34

2)

Input (h)	Output (y)
19	12
32	25
39	32
48	41
26	19

3)

Input (v)	Output (m)
37	51
33	47
14	28
19	33
46	60

4)

Input (s)	Output (k)
37	44
49	56
39	46
11	18
31	38

5)

Input (d)	Output (q)
37	50
30	43
22	35
31	44
43	56

6)

Input (j)	Output (p)
28	16
60	48
53	41
29	17
37	25

7)

In (z)	50	48	65	64
Out (n)	35	33	50	49

8)

In (q)	33	26	19	54
Out (y)	24	17	10	45

9)

In (k)	19	37	47	27
Out (p)	24	42	52	32

10)

In (o)	37	18	24	20
Out (l)	50	31	37	33

11)

In (f)	41	11	22	42
Out (j)	54	24	35	55

12)

In (s)	41	42	43	27
Out (e)	35	36	37	21

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine what rule the function machine is using.

1)

Input (z)	Output (k)
54	49
18	13
38	33
41	36
39	34

Subtract 5

2)

Input (h)	Output (y)
19	12
32	25
39	32
48	41
26	19

Subtract 7

3)

Input (v)	Output (m)
37	51
33	47
14	28
19	33
46	60

Add 14

4)

Input (s)	Output (k)
37	44
49	56
39	46
11	18
31	38

Add 7

5)

Input (d)	Output (q)
37	50
30	43
22	35
31	44
43	56

Add 13

6)

Input (j)	Output (p)
28	16
60	48
53	41
29	17
37	25

Subtract 12

7)

In (z)	50	48	65	64
Out (n)	35	33	50	49

Subtract 15

8)

In (q)	33	26	19	54
Out (y)	24	17	10	45

Subtract 9

9)

In (k)	19	37	47	27
Out (p)	24	42	52	32

Add 5

10)

In (o)	37	18	24	20
Out (l)	50	31	37	33

Add 13

11)

In (f)	41	11	22	42
Out (j)	54	24	35	55

Add 13

12)

In (s)	41	42	43	27
Out (e)	35	36	37	21

Subtract 6

Answers

1. Subtract 5

2. Subtract 7

3. Add 14

4. Add 7

5. Add 13

6. Subtract 12

7. Subtract 15

8. Subtract 9

9. Add 5

10. Add 13

11. Add 13

12. Subtract 6



Determine what rule the function machine is using.

Answers

Subtract 12	Add 7	Add 14	Subtract 5
Subtract 9	Subtract 7	Subtract 15	Add 13
Add 5			

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

1)

Input (z)	Output (k)
54	49
18	13
38	33
41	36
39	34

2)

Input (h)	Output (y)
19	12
32	25
39	32
48	41
26	19

3)

Input (v)	Output (m)
37	51
33	47
14	28
19	33
46	60

4)

Input (s)	Output (k)
37	44
49	56
39	46
11	18
31	38

5)

Input (d)	Output (q)
37	50
30	43
22	35
31	44
43	56

6)

Input (j)	Output (p)
28	16
60	48
53	41
29	17
37	25

7)

In (z)	50	48	65	64
Out (n)	35	33	50	49

8)

In (q)	33	26	19	54
Out (y)	24	17	10	45

9)

In (k)	19	37	47	27
Out (p)	24	42	52	32



Determine what rule the function machine is using.

Answers

1)

Input (z)	Output (e)
33	47
27	41
20	34
19	33
40	54

2)

Input (m)	Output (i)
54	39
28	13
43	28
60	45
30	15

3)

Input (z)	Output (p)
39	34
29	24
18	13
46	41
35	30

4)

Input (z)	Output (h)
47	59
43	55
26	38
44	56
17	29

5)

Input (u)	Output (n)
31	16
58	43
26	11
29	14
54	39

6)

Input (h)	Output (f)
52	44
46	38
18	10
29	21
19	11

7)

In (t)	15	14	39	23
Out (h)	20	19	44	28

8)

In (c)	40	43	26	32
Out (g)	55	58	41	47

9)

In (e)	14	25	15	27
Out (j)	26	37	27	39

10)

In (o)	24	61	45	28
Out (h)	11	48	32	15

11)

In (o)	11	41	15	26
Out (y)	16	46	20	31

12)

In (k)	54	37	15	41
Out (a)	49	32	10	36

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine what rule the function machine is using.

1)

Input (z)	Output (e)
33	47
27	41
20	34
19	33
40	54

Add 14

2)

Input (m)	Output (i)
54	39
28	13
43	28
60	45
30	15

Subtract 15

3)

Input (z)	Output (p)
39	34
29	24
18	13
46	41
35	30

Subtract 5

4)

Input (z)	Output (h)
47	59
43	55
26	38
44	56
17	29

Add 12

5)

Input (u)	Output (n)
31	16
58	43
26	11
29	14
54	39

Subtract 15

6)

Input (h)	Output (f)
52	44
46	38
18	10
29	21
19	11

Subtract 8

7)

In (t)	15	14	39	23
Out (h)	20	19	44	28

Add 5

8)

In (c)	40	43	26	32
Out (g)	55	58	41	47

Add 15

9)

In (e)	14	25	15	27
Out (j)	26	37	27	39

Add 12

10)

In (o)	24	61	45	28
Out (h)	11	48	32	15

Subtract 13

11)

In (o)	11	41	15	26
Out (y)	16	46	20	31

Add 5

12)

In (k)	54	37	15	41
Out (a)	49	32	10	36

Subtract 5

Answers

1. Add 14

2. Subtract 15

3. Subtract 5

4. Add 12

5. Subtract 15

6. Subtract 8

7. Add 5

8. Add 15

9. Add 12

10. Subtract 13

11. Add 5

12. Subtract 5



Determine what rule the function machine is using.

Answers

Add 14	Add 15	Subtract 15	Subtract 5
Add 12	Subtract 15	Add 5	Add 12
Subtract 8			

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

1)

Input (z)	Output (e)
33	47
27	41
20	34
19	33
40	54

2)

Input (m)	Output (i)
54	39
28	13
43	28
60	45
30	15

3)

Input (z)	Output (p)
39	34
29	24
18	13
46	41
35	30

4)

Input (z)	Output (h)
47	59
43	55
26	38
44	56
17	29

5)

Input (u)	Output (n)
31	16
58	43
26	11
29	14
54	39

6)

Input (h)	Output (f)
52	44
46	38
18	10
29	21
19	11

7)

In (t)	15	14	39	23
Out (h)	20	19	44	28

8)

In (c)	40	43	26	32
Out (g)	55	58	41	47

9)

In (e)	14	25	15	27
Out (j)	26	37	27	39



Determine what rule the function machine is using.

Answers

1)

Input (c)	Output (w)
38	53
18	33
26	41
35	50
16	31

2)

Input (n)	Output (o)
37	45
45	53
42	50
39	47
35	43

3)

Input (w)	Output (h)
57	48
26	17
37	28
30	21
58	49

4)

Input (w)	Output (g)
30	15
44	29
25	10
31	16
51	36

5)

Input (j)	Output (e)
42	54
26	38
11	23
48	60
43	55

6)

Input (k)	Output (f)
46	35
42	31
58	47
40	29
34	23

7)

In (a)	28	33	31	44
Out (n)	42	47	45	58

8)

In (f)	29	58	24	26
Out (a)	18	47	13	15

9)

In (r)	21	30	45	11
Out (a)	29	38	53	19

10)

In (q)	60	44	29	24
Out (n)	48	32	17	12

11)

In (u)	32	31	35	41
Out (k)	17	16	20	26

12)

In (r)	45	19	39	38
Out (e)	55	29	49	48

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine what rule the function machine is using.

1)

Input (c)	Output (w)
38	53
18	33
26	41
35	50
16	31

Add 15

2)

Input (n)	Output (o)
37	45
45	53
42	50
39	47
35	43

Add 8

3)

Input (w)	Output (h)
57	48
26	17
37	28
30	21
58	49

Subtract 9

4)

Input (w)	Output (g)
30	15
44	29
25	10
31	16
51	36

Subtract 15

5)

Input (j)	Output (e)
42	54
26	38
11	23
48	60
43	55

Add 12

6)

Input (k)	Output (f)
46	35
42	31
58	47
40	29
34	23

Subtract 11

7)

In (a)	28	33	31	44
Out (n)	42	47	45	58

Add 14

8)

In (f)	29	58	24	26
Out (a)	18	47	13	15

Subtract 11

9)

In (r)	21	30	45	11
Out (a)	29	38	53	19

Add 8

10)

In (q)	60	44	29	24
Out (n)	48	32	17	12

Subtract 12

11)

In (u)	32	31	35	41
Out (k)	17	16	20	26

Subtract 15

12)

In (r)	45	19	39	38
Out (e)	55	29	49	48

Add 10

Answers

1. Add 15

2. Add 8

3. Subtract 9

4. Subtract 15

5. Add 12

6. Subtract 11

7. Add 14

8. Subtract 11

9. Add 8

10. Subtract 12

11. Subtract 15

12. Add 10



Determine what rule the function machine is using.

Answers

Add 14	Subtract 11	Subtract 9	Add 12
Subtract 15	Add 8	Subtract 11	Add 15
Add 8			

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

1)

Input (c)	Output (w)
38	53
18	33
26	41
35	50
16	31

2)

Input (n)	Output (o)
37	45
45	53
42	50
39	47
35	43

3)

Input (w)	Output (h)
57	48
26	17
37	28
30	21
58	49

4)

Input (w)	Output (g)
30	15
44	29
25	10
31	16
51	36

5)

Input (j)	Output (e)
42	54
26	38
11	23
48	60
43	55

6)

Input (k)	Output (f)
46	35
42	31
58	47
40	29
34	23

7)

In (a)	28	33	31	44
Out (n)	42	47	45	58

8)

In (f)	29	58	24	26
Out (a)	18	47	13	15

9)

In (r)	21	30	45	11
Out (a)	29	38	53	19