



Determining Function Machine Rule

Name: _____

Determine what rule the function machine is using.

Answers

1) Input	Output
25	30
50	55
15	20
26	31
39	44

- A. subtract 4
B. add 5
C. subtract 3
D. subtract 6

2) Input	Output
25	30
18	23
47	52
36	41
42	47

- A. add 16
B. subtract 18
C. add 5
D. subtract 14

3) Input	Output
44	52
11	19
25	33
49	57
50	58

- A. add 8
B. add 18
C. subtract 9
D. subtract 15

4) Input	Output
48	57
49	58
15	24
38	47
40	49

- A. add 21
B. add 9
C. subtract 16
D. subtract 19

5) Input	Output
43	55
45	57
31	43
44	56
30	42

- A. subtract 11
B. add 12
C. subtract 6
D. add 7

6) Input	Output
29	43
18	32
41	55
23	37
36	50

- A. subtract 16
B. add 8
C. add 17
D. add 14

7) Input	Output
44	35
42	33
20	11
34	25
28	19

- A. subtract 9
B. add 13
C. subtract 18
D. add 19

8) Input	Output
46	34
31	19
37	25
54	42
39	27

- A. subtract 12
B. add 7
C. add 6
D. subtract 9

9) Input	Output
27	22
36	31
21	16
34	29
17	12

- A. add 20
B. add 15
C. subtract 11
D. subtract 5



Determining Function Machine Rule

Name: **Answer Key**

Determine what rule the function machine is using.

1)	Input	Output
25	30	
50	55	
15	20	
26	31	
39	44	

- A. subtract 4
- B. add 5
- C. subtract 3
- D. subtract 6

2)	Input	Output
25	30	
18	23	
47	52	
36	41	
42	47	

- A. add 16
- B. subtract 18
- C. add 5
- D. subtract 14

3)	Input	Output
44	52	
11	19	
25	33	
49	57	
50	58	

- A. add 8
- B. add 18
- C. subtract 9
- D. subtract 15

4)	Input	Output
48	57	
49	58	
15	24	
38	47	
40	49	

- A. add 21
- B. add 9
- C. subtract 16
- D. subtract 19

5)	Input	Output
43	55	
45	57	
31	43	
44	56	
30	42	

- A. subtract 11
- B. add 12
- C. subtract 6
- D. add 7

6)	Input	Output
29	43	
18	32	
41	55	
23	37	
36	50	

- A. subtract 16
- B. add 8
- C. add 17
- D. add 14

7)	Input	Output
44	35	
42	33	
20	11	
34	25	
28	19	

- A. subtract 9
- B. add 13
- C. subtract 18
- D. add 19

8)	Input	Output
46	34	
31	19	
37	25	
54	42	
39	27	

- A. subtract 12
- B. add 7
- C. add 6
- D. subtract 9

9)	Input	Output
27	22	
36	31	
21	16	
34	29	
17	12	

- A. add 20
- B. add 15
- C. subtract 11
- D. subtract 5

Answers

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



Determining Function Machine Rule

Name: _____

Determine what rule the function machine is using.

Answers

1)	Input	Output
14	29	
49	64	
25	40	
46	61	
35	50	

- A. add 15
B. add 11
C. subtract 19
D. subtract 9

2)	Input	Output
48	60	
16	28	
49	61	
19	31	
17	29	

- A. subtract 28
B. subtract 38
C. add 12
D. subtract 35

3)	Input	Output
13	19	
40	46	
48	54	
21	27	
44	50	

- A. add 6
B. subtract 24
C. subtract 32
D. add 26

4)	Input	Output
35	40	
41	46	
39	44	
15	20	
49	54	

- A. add 27
B. subtract 31
C. add 5
D. add 25

5)	Input	Output
33	21	
59	47	
25	13	
60	48	
39	27	

- A. add 22
B. subtract 20
C. subtract 12
D. add 23

6)	Input	Output
31	39	
20	28	
47	55	
30	38	
33	41	

- A. add 24
B. add 8
C. subtract 28
D. subtract 29

7)	Input	Output
25	34	
37	46	
11	20	
10	19	
44	53	

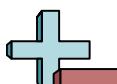
- A. add 9
B. add 14
C. subtract 10
D. subtract 15

8)	Input	Output
19	12	
49	42	
22	15	
28	21	
45	38	

- A. add 6
B. subtract 10
C. add 1
D. subtract 7

9)	Input	Output
49	34	
53	38	
38	23	
40	25	
25	10	

- A. subtract 21
B. subtract 20
C. subtract 15
D. add 14



Determining Function Machine Rule

Name: **Answer Key**

Determine what rule the function machine is using.

1)	Input	Output
14	29	
49	64	
25	40	
46	61	
35	50	

- A. add 15
- B. add 11
- C. subtract 19
- D. subtract 9

2)	Input	Output
48	60	
16	28	
49	61	
19	31	
17	29	

- A. subtract 28
- B. subtract 38
- C. add 12
- D. subtract 35

3)	Input	Output
13	19	
40	46	
48	54	
21	27	
44	50	

- A. add 6
- B. subtract 24
- C. subtract 32
- D. add 26

4)	Input	Output
35	40	
41	46	
39	44	
15	20	
49	54	

- A. add 27
- B. subtract 31
- C. add 5
- D. add 25

5)	Input	Output
33	21	
59	47	
25	13	
60	48	
39	27	

- A. add 22
- B. subtract 20
- C. subtract 12
- D. add 23

6)	Input	Output
31	39	
20	28	
47	55	
30	38	
33	41	

- A. add 24
- B. add 8
- C. subtract 28
- D. subtract 29

7)	Input	Output
25	34	
37	46	
11	20	
10	19	
44	53	

- A. add 9
- B. add 14
- C. subtract 10
- D. subtract 15

8)	Input	Output
19	12	
49	42	
22	15	
28	21	
45	38	

- A. add 6
- B. subtract 10
- C. add 1
- D. subtract 7

9)	Input	Output
49	34	
53	38	
38	23	
40	25	
25	10	

- A. subtract 21
- B. subtract 20
- C. subtract 15
- D. add 14

Answers

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



Determining Function Machine Rule

Name: _____

Determine what rule the function machine is using.

Answers

1)	Input	Output
50	38	
33	21	
49	37	
28	16	
32	20	

- A. add 21
B. add 23
C. subtract 19
D. subtract 12

2)	Input	Output
41	34	
26	19	
27	20	
49	42	
50	43	

- A. subtract 7
B. add 37
C. subtract 38
D. add 31

3)	Input	Output
16	29	
45	58	
23	36	
17	30	
26	39	

- A. subtract 21
B. subtract 18
C. add 18
D. add 13

4)	Input	Output
17	23	
37	43	
45	51	
16	22	
18	24	

- A. subtract 7
B. add 6
C. subtract 3
D. subtract 8

5)	Input	Output
46	33	
55	42	
43	30	
53	40	
62	49	

- A. add 36
B. subtract 13
C. subtract 38
D. add 41

6)	Input	Output
25	18	
26	19	
17	10	
50	43	
23	16	

- A. subtract 15
B. add 8
C. subtract 7
D. add 14

7)	Input	Output
30	40	
48	58	
36	46	
44	54	
18	28	

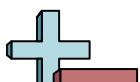
- A. add 10
B. subtract 12
C. add 14
D. subtract 15

8)	Input	Output
41	48	
25	32	
23	30	
37	44	
22	29	

- A. add 25
B. subtract 22
C. add 7
D. add 26

9)	Input	Output
60	45	
28	13	
30	15	
65	50	
56	41	

- A. add 10
B. add 13
C. subtract 15
D. subtract 6



Determining Function Machine Rule

Name: **Answer Key**

Determine what rule the function machine is using.

1) Input	Output
50	38
33	21
49	37
28	16
32	20

- A. add 21
- B. add 23
- C. subtract 19
- D. subtract 12

2) Input	Output
41	34
26	19
27	20
49	42
50	43

- A. subtract 7
- B. add 37
- C. subtract 38
- D. add 31

3) Input	Output
16	29
45	58
23	36
17	30
26	39

- A. subtract 21
- B. subtract 18
- C. add 18
- D. add 13

4) Input	Output
17	23
37	43
45	51
16	22
18	24

- A. subtract 7
- B. add 6
- C. subtract 3
- D. subtract 8

5) Input	Output
46	33
55	42
43	30
53	40
62	49

- A. add 36
- B. subtract 13
- C. subtract 38
- D. add 41

6) Input	Output
25	18
26	19
17	10
50	43
23	16

- A. subtract 15
- B. add 8
- C. subtract 7
- D. add 14

7) Input	Output
30	40
48	58
36	46
44	54
18	28

- A. add 10
- B. subtract 12
- C. add 14
- D. subtract 15

8) Input	Output
41	48
25	32
23	30
37	44
22	29

- A. add 25
- B. subtract 22
- C. add 7
- D. add 26

9) Input	Output
60	45
28	13
30	15
65	50
56	41

- A. add 10
- B. add 13
- C. subtract 15
- D. subtract 6

Answers

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



Determining Function Machine Rule

Name: _____

Determine what rule the function machine is using.

Answers

1)	Input	Output
57	43	
55	41	
61	47	
58	44	
35	21	

- A. subtract 11
B. add 5
C. add 9
D. subtract 14

2)	Input	Output
15	28	
18	31	
12	25	
22	35	
49	62	

- A. add 13
B. subtract 19
C. add 17
D. subtract 13

3)	Input	Output
24	15	
49	40	
48	39	
31	22	
35	26	

- A. subtract 18
B. subtract 9
C. add 15
D. add 17

4)	Input	Output
60	46	
43	29	
38	24	
26	12	
59	45	

- A. add 27
B. add 33
C. subtract 14
D. subtract 28

5)	Input	Output
25	16	
31	22	
45	36	
49	40	
51	42	

- A. add 2
B. subtract 8
C. add 11
D. subtract 9

6)	Input	Output
42	28	
51	37	
57	43	
26	12	
31	17	

- A. add 10
B. subtract 11
C. add 16
D. subtract 14

7)	Input	Output
13	22	
41	50	
19	28	
23	32	
44	53	

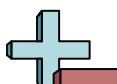
- A. add 9
B. subtract 21
C. subtract 23
D. add 14

8)	Input	Output
40	28	
58	46	
47	35	
54	42	
24	12	

- A. subtract 38
B. add 29
C. subtract 12
D. add 31

9)	Input	Output
31	46	
27	42	
14	29	
21	36	
24	39	

- A. add 37
B. add 15
C. subtract 31
D. add 32



Determining Function Machine Rule

Name: **Answer Key**

Determine what rule the function machine is using.

1) Input	Output
57	43
55	41
61	47
58	44
35	21

- A. subtract 11
- B. add 5
- C. add 9
- D. subtract 14

2) Input	Output
15	28
18	31
12	25
22	35
49	62

- A. add 13
- B. subtract 19
- C. add 17
- D. subtract 13

3) Input	Output
24	15
49	40
48	39
31	22
35	26

- A. subtract 18
- B. subtract 9
- C. add 15
- D. add 17

4) Input	Output
60	46
43	29
38	24
26	12
59	45

- A. add 27
- B. add 33
- C. subtract 14
- D. subtract 28

5) Input	Output
25	16
31	22
45	36
49	40
51	42

- A. add 2
- B. subtract 8
- C. add 11
- D. subtract 9

6) Input	Output
42	28
51	37
57	43
26	12
31	17

- A. add 10
- B. subtract 11
- C. add 16
- D. subtract 14

7) Input	Output
13	22
41	50
19	28
23	32
44	53

- A. add 9
- B. subtract 21
- C. subtract 23
- D. add 14

8) Input	Output
40	28
58	46
47	35
54	42
24	12

- A. subtract 38
- B. add 29
- C. subtract 12
- D. add 31

9) Input	Output
31	46
27	42
14	29
21	36
24	39

- A. add 37
- B. add 15
- C. subtract 31
- D. add 32

Answers

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



Determining Function Machine Rule

Name: _____

Determine what rule the function machine is using.

Answers

1) Input	Output
22	12
52	42
48	38
39	29
42	32

- A. add 26
B. add 28
C. subtract 27
D. subtract 10

2) Input	Output
38	30
23	15
45	37
22	14
19	11

- A. add 9
B. add 10
C. subtract 6
D. subtract 8

3) Input	Output
47	56
44	53
33	42
26	35
34	43

- A. add 3
B. subtract 12
C. add 9
D. add 4

4) Input	Output
19	29
22	32
20	30
40	50
39	49

- A. add 10
B. subtract 37
C. add 31
D. add 29

5) Input	Output
44	50
17	23
40	46
27	33
13	19

- A. subtract 23
B. add 6
C. subtract 24
D. subtract 20

6) Input	Output
12	26
37	51
42	56
14	28
32	46

- A. subtract 21
B. add 14
C. add 18
D. add 19

7) Input	Output
23	32
15	24
32	41
33	42
36	45

- A. subtract 11
B. add 16
C. subtract 17
D. add 9

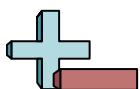
8) Input	Output
45	56
17	28
19	30
36	47
30	41

- A. subtract 27
B. add 11
C. subtract 24
D. add 27

9) Input	Output
30	16
39	25
59	45
35	21
42	28

- A. add 33
B. subtract 40
C. subtract 42
D. subtract 14

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



Determining Function Machine Rule

Name: **Answer Key**

Determine what rule the function machine is using.

1)	Input	Output
22	12	
52	42	
48	38	
39	29	
42	32	

- A. add 26
- B. add 28
- C. subtract 27
- D. subtract 10

2)	Input	Output
38	30	
23	15	
45	37	
22	14	
19	11	

- A. add 9
- B. add 10
- C. subtract 6
- D. subtract 8

3)	Input	Output
47	56	
44	53	
33	42	
26	35	
34	43	

- A. add 3
- B. subtract 12
- C. add 9
- D. add 4

4)	Input	Output
19	29	
22	32	
20	30	
40	50	
39	49	

- A. add 10
- B. subtract 37
- C. add 31
- D. add 29

5)	Input	Output
44	50	
17	23	
40	46	
27	33	
13	19	

- A. subtract 23
- B. add 6
- C. subtract 24
- D. subtract 20

6)	Input	Output
12	26	
37	51	
42	56	
14	28	
32	46	

- A. subtract 21
- B. add 14
- C. add 18
- D. add 19

7)	Input	Output
23	32	
15	24	
32	41	
33	42	
36	45	

- A. subtract 11
- B. add 16
- C. subtract 17
- D. add 9

8)	Input	Output
45	56	
17	28	
19	30	
36	47	
30	41	

- A. subtract 27
- B. add 11
- C. subtract 24
- D. add 27

9)	Input	Output
30	16	
39	25	
59	45	
35	21	
42	28	

- A. add 33
- B. subtract 40
- C. subtract 42
- D. subtract 14

Answers

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



Determining Function Machine Rule

Name: _____

Determine what rule the function machine is using.

Answers

1)	Input	Output
30	19	
46	35	
51	40	
23	12	
45	34	

- A. add 19
B. subtract 11
C. add 20
D. subtract 10

2)	Input	Output
50	58	
35	43	
48	56	
41	49	
46	54	

- A. add 8
B. subtract 27
C. subtract 22
D. subtract 19

3)	Input	Output
34	44	
25	35	
19	29	
49	59	
16	26	

- A. add 17
B. add 10
C. subtract 12
D. subtract 19

4)	Input	Output
10	22	
37	49	
46	58	
13	25	
11	23	

- A. add 32
B. subtract 31
C. add 36
D. add 12

5)	Input	Output
57	50	
18	11	
22	15	
45	38	
40	33	

- A. subtract 10
B. add 12
C. subtract 7
D. add 11

6)	Input	Output
56	45	
61	50	
52	41	
26	15	
47	36	

- A. subtract 6
B. subtract 11
C. add 11
D. add 12

7)	Input	Output
23	30	
46	53	
49	56	
13	20	
38	45	

- A. add 7
B. add 17
C. subtract 18
D. subtract 10

8)	Input	Output
40	26	
56	42	
59	45	
33	19	
36	22	

- A. add 20
B. subtract 13
C. subtract 14
D. add 12

9)	Input	Output
29	34	
23	28	
37	42	
11	16	
45	50	

- A. subtract 6
B. add 5
C. subtract 11
D. subtract 4



Determining Function Machine Rule

Name: **Answer Key**

Determine what rule the function machine is using.

1) Input	Output
30	19
46	35
51	40
23	12
45	34

- A. add 19
- B. subtract 11
- C. add 20
- D. subtract 10

2) Input	Output
50	58
35	43
48	56
41	49
46	54

- A. add 8
- B. subtract 27
- C. subtract 22
- D. subtract 19

3) Input	Output
34	44
25	35
19	29
49	59
16	26

- A. add 17
- B. add 10
- C. subtract 12
- D. subtract 19

4) Input	Output
10	22
37	49
46	58
13	25
11	23

- A. add 32
- B. subtract 31
- C. add 36
- D. add 12

5) Input	Output
57	50
18	11
22	15
45	38
40	33

- A. subtract 10
- B. add 12
- C. subtract 7
- D. add 11

6) Input	Output
56	45
61	50
52	41
26	15
47	36

- A. subtract 6
- B. subtract 11
- C. add 11
- D. add 12

7) Input	Output
23	30
46	53
49	56
13	20
38	45

- A. add 7
- B. add 17
- C. subtract 18
- D. subtract 10

8) Input	Output
40	26
56	42
59	45
33	19
36	22

- A. add 20
- B. subtract 13
- C. subtract 14
- D. add 12

9) Input	Output
29	34
23	28
37	42
11	16
45	50

- A. subtract 6
- B. add 5
- C. subtract 11
- D. subtract 4

Answers

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



Determining Function Machine Rule

Name: _____

Determine what rule the function machine is using.

Answers

1) Input	Output
41	49
24	32
30	38
47	55
50	58

- A. add 12
B. subtract 14
C. add 8
D. subtract 11

2) Input	Output
14	24
29	39
27	37
25	35
24	34

- A. add 10
B. add 25
C. add 28
D. subtract 27

3) Input	Output
38	24
52	38
51	37
44	30
39	25

- A. subtract 6
B. add 7
C. add 5
D. subtract 14

4) Input	Output
56	45
44	33
30	19
40	29
48	37

- A. subtract 13
B. add 14
C. subtract 11
D. add 7

5) Input	Output
32	46
40	54
34	48
10	24
24	38

- A. subtract 19
B. add 18
C. subtract 20
D. add 14

6) Input	Output
30	15
35	20
56	41
45	30
57	42

- A. subtract 15
B. add 21
C. add 11
D. subtract 11

7) Input	Output
14	21
20	27
38	45
37	44
43	50

- A. add 7
B. subtract 10
C. add 9
D. subtract 7

8) Input	Output
50	44
22	16
32	26
20	14
24	18

- A. add 12
B. subtract 8
C. subtract 6
D. add 16

9) Input	Output
57	47
21	11
39	29
50	40
59	49

- A. add 29
B. subtract 10
C. subtract 26
D. add 24



Determining Function Machine Rule

Name: **Answer Key**

Determine what rule the function machine is using.

1)	Input	Output
41	49	
24	32	
30	38	
47	55	
50	58	

- A. add 12
- B. subtract 14
- C. add 8
- D. subtract 11

2)	Input	Output
14	24	
29	39	
27	37	
25	35	
24	34	

- A. add 10
- B. add 25
- C. add 28
- D. subtract 27

3)	Input	Output
38	24	
52	38	
51	37	
44	30	
39	25	

- A. subtract 6
- B. add 7
- C. add 5
- D. subtract 14

4)	Input	Output
56	45	
44	33	
30	19	
40	29	
48	37	

- A. subtract 13
- B. add 14
- C. subtract 11
- D. add 7

5)	Input	Output
32	46	
40	54	
34	48	
10	24	
24	38	

- A. subtract 19
- B. add 18
- C. subtract 20
- D. add 14

6)	Input	Output
30	15	
35	20	
56	41	
45	30	
57	42	

- A. subtract 15
- B. add 21
- C. add 11
- D. subtract 11

7)	Input	Output
14	21	
20	27	
38	45	
37	44	
43	50	

- A. add 7
- B. subtract 10
- C. add 9
- D. subtract 7

8)	Input	Output
50	44	
22	16	
32	26	
20	14	
24	18	

- A. add 12
- B. subtract 8
- C. subtract 6
- D. add 16

9)	Input	Output
57	47	
21	11	
39	29	
50	40	
59	49	

- A. add 29
- B. subtract 10
- C. subtract 26
- D. add 24

Answers

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



Determining Function Machine Rule

Name: _____

Determine what rule the function machine is using.

Answers

1) Input	Output
19	11
36	28
37	29
27	19
58	50

- A. subtract 8
B. subtract 24
C. subtract 16
D. add 20

2) Input	Output
25	34
42	51
15	24
37	46
46	55

- A. subtract 19
B. subtract 14
C. add 18
D. add 9

3) Input	Output
26	39
38	51
16	29
32	45
17	30

- A. subtract 18
B. subtract 10
C. add 12
D. add 13

4) Input	Output
43	34
25	16
36	27
24	15
57	48

- A. add 21
B. subtract 20
C. subtract 9
D. add 16

5) Input	Output
37	50
48	61
49	62
46	59
44	57

- A. subtract 12
B. subtract 13
C. add 13
D. subtract 15

6) Input	Output
62	47
38	23
33	18
49	34
56	41

- A. add 34
B. add 24
C. subtract 27
D. subtract 15

7) Input	Output
40	51
20	31
18	29
27	38
35	46

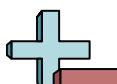
- A. add 6
B. add 11
C. subtract 9
D. subtract 5

8) Input	Output
15	23
12	20
17	25
43	51
41	49

- A. subtract 11
B. add 8
C. add 4
D. subtract 2

9) Input	Output
41	28
59	46
26	13
62	49
44	31

- A. add 11
B. subtract 12
C. add 10
D. subtract 13



Determining Function Machine Rule

Name: **Answer Key**

Determine what rule the function machine is using.

1) Input	Output
19	11
36	28
37	29
27	19
58	50

- A. subtract 8
- B. subtract 24
- C. subtract 16
- D. add 20

2) Input	Output
25	34
42	51
15	24
37	46
46	55

- A. subtract 19
- B. subtract 14
- C. add 18
- D. add 9

3) Input	Output
26	39
38	51
16	29
32	45
17	30

- A. subtract 18
- B. subtract 10
- C. add 12
- D. add 13

4) Input	Output
43	34
25	16
36	27
24	15
57	48

- A. add 21
- B. subtract 20
- C. subtract 9
- D. add 16

5) Input	Output
37	50
48	61
49	62
46	59
44	57

- A. subtract 12
- B. subtract 13
- C. add 13
- D. subtract 15

6) Input	Output
62	47
38	23
33	18
49	34
56	41

- A. add 34
- B. add 24
- C. subtract 27
- D. subtract 15

7) Input	Output
40	51
20	31
18	29
27	38
35	46

- A. add 6
- B. add 11
- C. subtract 9
- D. subtract 5

8) Input	Output
15	23
12	20
17	25
43	51
41	49

- A. subtract 11
- B. add 8
- C. add 4
- D. subtract 2

9) Input	Output
41	28
59	46
26	13
62	49
44	31

- A. add 11
- B. subtract 12
- C. add 10
- D. subtract 13

Answers

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



Determining Function Machine Rule

Name: _____

Determine what rule the function machine is using.

Answers

1) Input	Output
46	58
21	33
20	32
27	39
50	62

- A. add 12
B. add 28
C. subtract 27
D. subtract 34

2) Input	Output
36	43
20	27
29	36
26	33
17	24

- A. subtract 10
B. add 3
C. add 11
D. add 7

3) Input	Output
38	44
18	24
44	50
40	46
47	53

- A. subtract 31
B. add 6
C. subtract 29
D. add 29

4) Input	Output
12	24
45	57
27	39
35	47
39	51

- A. subtract 25
B. add 12
C. subtract 28
D. add 21

5) Input	Output
36	46
22	32
25	35
14	24
34	44

- A. add 10
B. subtract 23
C. subtract 17
D. add 27

6) Input	Output
23	17
36	30
34	28
42	36
38	32

- A. add 21
B. subtract 6
C. subtract 17
D. subtract 16

7) Input	Output
57	47
54	44
53	43
56	46
22	12

- A. add 23
B. subtract 10
C. add 20
D. add 21

8) Input	Output
27	22
38	33
35	30
48	43
47	42

- A. add 9
B. subtract 5
C. add 8
D. add 7

9) Input	Output
30	45
33	48
14	29
35	50
43	58

- A. subtract 15
B. subtract 17
C. add 15
D. subtract 9



Determining Function Machine Rule

Name: **Answer Key**

Determine what rule the function machine is using.

1) Input	Output
46	58
21	33
20	32
27	39
50	62

- A. add 12
- B. add 28
- C. subtract 27
- D. subtract 34

2) Input	Output
36	43
20	27
29	36
26	33
17	24

- A. subtract 10
- B. add 3
- C. add 11
- D. add 7

3) Input	Output
38	44
18	24
44	50
40	46
47	53

- A. subtract 31
- B. add 6
- C. subtract 29
- D. add 29

4) Input	Output
12	24
45	57
27	39
35	47
39	51

- A. subtract 25
- B. add 12
- C. subtract 28
- D. add 21

5) Input	Output
36	46
22	32
25	35
14	24
34	44

- A. add 10
- B. subtract 23
- C. subtract 17
- D. add 27

6) Input	Output
23	17
36	30
34	28
42	36
38	32

- A. add 21
- B. subtract 6
- C. subtract 17
- D. subtract 16

7) Input	Output
57	47
54	44
53	43
56	46
22	12

- A. add 23
- B. subtract 10
- C. add 20
- D. add 21

8) Input	Output
27	22
38	33
35	30
48	43
47	42

- A. add 9
- B. subtract 5
- C. add 8
- D. add 7

9) Input	Output
30	45
33	48
14	29
35	50
43	58

- A. subtract 15
- B. subtract 17
- C. add 15
- D. subtract 9

Answers

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



Determining Function Machine Rule

Name: _____

Determine what rule the function machine is using.

Answers

1)	Input	Output
25	12	
53	40	
48	35	
51	38	
35	22	

- A. subtract 32
B. subtract 13
C. add 24
D. subtract 29

2)	Input	Output
36	50	
33	47	
38	52	
34	48	
25	39	

- A. add 14
B. add 25
C. subtract 30
D. subtract 29

3)	Input	Output
31	39	
14	22	
45	53	
50	58	
15	23	

- A. subtract 29
B. add 8
C. subtract 27
D. add 29

4)	Input	Output
59	48	
31	20	
61	50	
29	18	
38	27	

- A. subtract 1
B. add 9
C. add 5
D. subtract 11

5)	Input	Output
24	17	
27	20	
38	31	
37	30	
36	29	

- A. add 37
B. subtract 7
C. add 38
D. subtract 32

6)	Input	Output
38	26	
34	22	
59	47	
45	33	
29	17	

- A. subtract 9
B. add 16
C. add 18
D. subtract 12

7)	Input	Output
16	30	
45	59	
24	38	
43	57	
39	53	

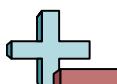
- A. subtract 12
B. subtract 8
C. add 6
D. add 14

8)	Input	Output
34	43	
26	35	
44	53	
18	27	
21	30	

- A. add 9
B. add 23
C. add 21
D. subtract 24

9)	Input	Output
33	46	
17	30	
23	36	
16	29	
29	42	

- A. add 27
B. subtract 21
C. subtract 26
D. add 13



Determining Function Machine Rule

Name: **Answer Key**

Determine what rule the function machine is using.

1)	Input	Output
25	12	
53	40	
48	35	
51	38	
35	22	

- A. subtract 32
- B. subtract 13
- C. add 24
- D. subtract 29

2)	Input	Output
36	50	
33	47	
38	52	
34	48	
25	39	

- A. add 14
- B. add 25
- C. subtract 30
- D. subtract 29

3)	Input	Output
31	39	
14	22	
45	53	
50	58	
15	23	

- A. subtract 29
- B. add 8
- C. subtract 27
- D. add 29

4)	Input	Output
59	48	
31	20	
61	50	
29	18	
38	27	

- A. subtract 1
- B. add 9
- C. add 5
- D. subtract 11

5)	Input	Output
24	17	
27	20	
38	31	
37	30	
36	29	

- A. add 37
- B. subtract 7
- C. add 38
- D. subtract 32

6)	Input	Output
38	26	
34	22	
59	47	
45	33	
29	17	

- A. subtract 9
- B. add 16
- C. add 18
- D. subtract 12

7)	Input	Output
16	30	
45	59	
24	38	
43	57	
39	53	

- A. subtract 12
- B. subtract 8
- C. add 6
- D. add 14

8)	Input	Output
34	43	
26	35	
44	53	
18	27	
21	30	

- A. add 9
- B. add 23
- C. add 21
- D. subtract 24

9)	Input	Output
33	46	
17	30	
23	36	
16	29	
29	42	

- A. add 27
- B. subtract 21
- C. subtract 26
- D. add 13

Answers

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