Determining Function Machine Rule

Name:

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

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

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

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

Determining Function Machine Rule

Name:

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

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

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

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

Determining Function Machine Rule

Name:

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

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

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

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

Determining Function Machine Rule

Name:

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

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

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

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

Determining Function Machine Rule

Name:

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

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

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

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

Determining Function Machine Rule

Name:

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

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

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

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

Determining Function Machine Rule

Name:

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

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

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

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

Determining Function Machine Rule

Name:

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

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

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

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

Determining Function Machine Rule

Name:

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

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

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

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

Determining Function Machine Rule

Name:

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

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

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

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