



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
8	12
	8
7	11
5	9
6	10

2)

Input	Output
19	9
20	10
13	3
18	8
12	

3)

Input	Output
8	
10	70
5	35
2	14
4	28

4)

Input	Output
5	35
3	21
9	63
4	28
	56

5)

Input	Output
10	8
12	10
9	7
7	5
4	

6)

Input	Output
12	
20	5
36	9
32	8
40	10

7)

In	81	54	18	90
Out	9	6		10

8)

In	25	22	26	29
Out		2	6	9

9)

In	7	8	6	4
Out		16	14	12

10)

In	9	3	8	7
Out	72	24		56

11)

In	3	10	4	2
Out	23	30	24	

12)

In	16	14	9	12
Out	9	7	2	5

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
8	12
4	8
7	11
5	9
6	10

Rule: Add 4

2)

Input	Output
19	9
20	10
13	3
18	8
12	2

Rule: Sub 10

3)

Input	Output
8	56
10	70
5	35
2	14
4	28

Rule: Mult by 7

4)

Input	Output
5	35
3	21
9	63
4	28
8	56

Rule: Mult by 7

5)

Input	Output
10	8
12	10
9	7
7	5
4	2

Rule: Sub 2

6)

Input	Output
12	3
20	5
36	9
32	8
40	10

Rule: Div by 4

7)

In	81	54	18	90
Out	9	6	2	10

Rule: Div by 9

8)

In	25	22	26	29
Out	5	2	6	9

Rule: Sub 20

9)

In	7	8	6	4
Out	15	16	14	12

Rule: Add 8

10)

In	9	3	8	7
Out	72	24	64	56

Rule: Mult by 8

11)

In	3	10	4	2
Out	23	30	24	22

Rule: Add 20

12)

In	16	14	9	12
Out	9	7	2	5

Rule: Sub 7

Answers1. 42. 23. 564. 85. 26. 37. 28. 59. 1510. 6411. 2212. 11



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
8	12
	8
7	11
5	9
6	10

2)

Input	Output
19	9
20	10
13	3
18	8
12	

3)

Input	Output
8	
10	70
5	35
2	14
4	28

4)

Input	Output
5	35
3	21
9	63
4	28
	56

5)

Input	Output
10	8
12	10
9	7
7	5
4	

6)

Input	Output
12	
20	5
36	9
32	8
40	10

7)

In	81	54	18	90
Out	9	6		10

8)

In	25	22	26	29
Out		2	6	9

9)

In	7	8	6	4
Out		16	14	12

10)

In	9	3	8	7
Out	72	24		56

11)

In	3	10	4	2
Out	23	30	24	

12)

In	16	14	9	12
Out	9	7	2	5

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
2	22
8	28
7	
9	29
6	26

2)

Input	Output
2	14
3	21
5	35
9	63
10	

3)

Input	Output
	3
22	4
27	9
23	5
24	6

4)

Input	Output
30	6
	7
45	9
40	8
25	5

5)

Input	Output
18	6
9	3
12	4
24	8
27	

6)

Input	Output
22	2
25	5
23	3
27	
29	9

7)

In	4	8	3	7
Out	32	64	24	

8)

In	2	10	5	
Out	20	100	50	30

9)

In	3	5	10	6
Out	22	24	29	25

10)

In	18	20	14	
Out	9	10	7	3

11)

In		3	4	5
Out	12	9	10	11

12)

In	48	36	24	60
Out		6	4	10

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
2	22
8	28
7	27
9	29
6	26

Rule: Add 20

2)

Input	Output
2	14
3	21
5	35
9	63
10	70

Rule: Mult by 7

3)

Input	Output
21	3
22	4
27	9
23	5
24	6

Rule: Sub 18

4)

Input	Output
30	6
35	7
45	9
40	8
25	5

Rule: Div by 5

5)

Input	Output
18	6
9	3
12	4
24	8
27	9

Rule: Div by 3

6)

Input	Output
22	2
25	5
23	3
27	7
29	9

Rule: Sub 20

7)

In	4	8	3	7
Out	32	64	24	56

Rule: Mult by 8

8)

In	2	10	5	3
Out	20	100	50	30

Rule: Mult by 10

9)

In	3	5	10	6
Out	22	24	29	25

Rule: Add 19

10)

In	18	20	14	6
Out	9	10	7	3

Rule: Div by 2

11)

In	6	3	4	5
Out	12	9	10	11

Rule: Add 6

12)

In	48	36	24	60
Out	8	6	4	10

Rule: Div by 6

Answers

1. 27
2. 70
3. 21
4. 35
5. 9
6. 7
7. 56
8. 3
9. 4
10. 6
11. 6
12. 8



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
2	22
8	28
7	
9	29
6	26

2)

Input	Output
2	14
3	21
5	35
9	63
10	

3)

Input	Output
	3
22	4
27	9
23	5
24	6

4)

Input	Output
30	6
	7
45	9
40	8
25	5

5)

Input	Output
18	6
9	3
12	4
24	8
27	

6)

Input	Output
22	2
25	5
23	3
27	
29	9

7)

In	4	8	3	7
Out	32	64	24	

8)

In	2	10	5	
Out	20	100	50	30

9)

In	3	5	10	6
Out	22	24	29	25

10)

In	18	20	14	
Out	9	10	7	3

11)

In		3	4	5
Out	12	9	10	11

12)

In	48	36	24	60
Out		6	4	10

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
12	3
18	9
14	
19	10
16	7

2)

Input	Output
8	32
4	16
9	36
7	28
5	

3)

Input	Output
19	7
21	9
16	4
14	2
	5

4)

Input	Output
30	10
18	6
27	9
6	
21	7

5)

Input	Output
4	16
9	21
5	17
8	20
	22

6)

Input	Output
4	
6	19
10	23
5	18
8	21

7)

In	8		10	6
Out	15	12	17	13

8)

In	22	25	19	24
Out	5	8	2	

9)

In		9	10	8
Out	10	45	50	40

10)

In		81	90	63
Out	4	9	10	7

11)

In	13	11	6	12
Out	10	8		9

12)

In	16	12	10	6
Out	8	6	5	

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
12	3
18	9
14	5
19	10
16	7

Rule: Sub 9

2)

Input	Output
8	32
4	16
9	36
7	28
5	20

Rule: Mult by 4

3)

Input	Output
19	7
21	9
16	4
14	2
17	5

Rule: Sub 12

4)

Input	Output
30	10
18	6
27	9
6	2
21	7

Rule: Div by 3

5)

Input	Output
4	16
9	21
5	17
8	20
10	22

Rule: Add 12

6)

Input	Output
4	17
6	19
10	23
5	18
8	21

Rule: Add 13

7)

In	8	5	10	6
Out	15	12	17	13

Rule: Add 7

8)

In	22	25	19	24
Out	5	8	2	7

Rule: Sub 17

9)

In	2	9	10	8
Out	10	45	50	40

Rule: Mult by 5

10)

In	36	81	90	63
Out	4	9	10	7

Rule: Div by 9

11)

In	13	11	6	12
Out	10	8	3	9

Rule: Sub 3

12)

In	16	12	10	6
Out	8	6	5	3

Rule: Div by 2

Answers

1. 5

2. 20

3. 17

4. 2

5. 10

6. 17

7. 5

8. 7

9. 2

10. 36

11. 3

12. 3



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
12	3
18	9
14	
19	10
16	7

2)

Input	Output
8	32
4	16
9	36
7	28
5	

3)

Input	Output
19	7
21	9
16	4
14	2
	5

4)

Input	Output
30	10
18	6
27	9
6	
21	7

5)

Input	Output
4	16
9	21
5	17
8	20
	22

6)

Input	Output
4	
6	19
10	23
5	18
8	21

7)

In	8		10	6
Out	15	12	17	13

8)

In	22	25	19	24
Out	5	8	2	

9)

In		9	10	8
Out	10	45	50	40

10)

In		81	90	63
Out	4	9	10	7

11)

In	13	11	6	12
Out	10	8		9

12)

In	16	12	10	6
Out	8	6	5	

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
8	4
14	7
16	8
	5
12	6

2)

Input	Output
3	12
5	
6	24
9	36
2	8

3)

Input	Output
10	60
4	24
3	18
9	
7	42

4)

Input	Output
24	8
6	2
9	
27	9
18	6

5)

Input	Output
10	20
8	18
2	12
9	19
7	

6)

Input	Output
12	7
13	8
8	
15	10
11	6

7)

In	80	72	56	
Out	10	9	7	4

8)

In	16	17	22	23
Out		3	8	9

9)

In	5	7	9	8
Out		16	18	17

10)

In	8	3	5	6
Out	40	15	25	

11)

In	7		13	5
Out	4	6	10	2

12)

In	27	63	45	54
Out	3	7	5	6

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
8	4
14	7
16	8
10	5
12	6

Rule: Div by 2

2)

Input	Output
3	12
5	20
6	24
9	36
2	8

Rule: Mult by 4

3)

Input	Output
10	60
4	24
3	18
9	54
7	42

Rule: Mult by 6

4)

Input	Output
24	8
6	2
9	3
27	9
18	6

Rule: Div by 3

5)

Input	Output
10	20
8	18
2	12
9	19
7	17

Rule: Add 10

6)

Input	Output
12	7
13	8
8	3
15	10
11	6

Rule: Sub 5

7)

In	80	72	56	32
Out	10	9	7	4

Rule: Div by 8

8)

In	16	17	22	23
Out	2	3	8	9

Rule: Sub 14

9)

In	5	7	9	8
Out	14	16	18	17

Rule: Add 9

10)

In	8	3	5	6
Out	40	15	25	30

Rule: Mult by 5

11)

In	7	9	13	5
Out	4	6	10	2

Rule: Sub 3

12)

In	27	63	45	54
Out	3	7	5	6

Rule: Div by 9

Answers1. 102. 203. 544. 35. 176. 37. 328. 29. 1410. 3011. 912. 2



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
8	4
14	7
16	8
	5
12	6

2)

Input	Output
3	12
5	
6	24
9	36
2	8

3)

Input	Output
10	60
4	24
3	18
9	
7	42

4)

Input	Output
24	8
6	2
9	
27	9
18	6

5)

Input	Output
10	20
8	18
2	12
9	19
7	

6)

Input	Output
12	7
13	8
8	
15	10
11	6

7)

In	80	72	56	
Out	10	9	7	4

8)

In	16	17	22	23
Out		3	8	9

9)

In	5	7	9	8
Out		16	18	17

10)

In	8	3	5	6
Out	40	15	25	

11)

In	7		13	5
Out	4	6	10	2

12)

In	27	63	45	54
Out	3	7	5	6

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
6	
8	11
4	7
5	8
9	12

2)

Input	Output
19	8
17	6
18	7
13	
21	10

3)

Input	Output
18	8
	5
19	9
16	6
13	3

4)

Input	Output
18	3
42	
12	2
36	6
54	9

5)

Input	Output
64	
56	7
80	10
72	9
16	2

6)

Input	Output
63	9
14	2
70	10
21	
56	8

7)

In	10		4	6
Out	20	14	8	12

8)

In	10	2	6	8
Out	13		9	11

9)

In	60	48	36	42
Out	10	8		7

10)

In	18	14	20	17
Out	6	2		5

11)

In	9	6	4	2
Out		20	18	16

12)

In	6	10	8	
Out	30	50	40	45

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
6	9
8	11
4	7
5	8
9	12

Rule: Add 3

2)

Input	Output
19	8
17	6
18	7
13	2
21	10

Rule: Sub 11

3)

Input	Output
18	8
15	5
19	9
16	6
13	3

Rule: Sub 10

4)

Input	Output
18	3
42	7
12	2
36	6
54	9

Rule: Div by 6

5)

Input	Output
64	8
56	7
80	10
72	9
16	2

Rule: Div by 8

6)

Input	Output
63	9
14	2
70	10
21	3
56	8

Rule: Div by 7

7)

In	10	7	4	6
Out	20	14	8	12

Rule: Mult by 2

8)

In	10	2	6	8
Out	13	5	9	11

Rule: Add 3

9)

In	60	48	36	42
Out	10	8	6	7

Rule: Div by 6

10)

In	18	14	20	17
Out	6	2	8	5

Rule: Sub 12

11)

In	9	6	4	2
Out	23	20	18	16

Rule: Add 14

12)

In	6	10	8	9
Out	30	50	40	45

Rule: Mult by 5

Answers

1. 9

2. 2

3. 15

4. 7

5. 8

6. 3

7. 7

8. 5

9. 6

10. 8

11. 23

12. 9



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
6	
8	11
4	7
5	8
9	12

2)

Input	Output
19	8
17	6
18	7
13	
21	10

3)

Input	Output
18	8
	5
19	9
16	6
13	3

4)

Input	Output
18	3
42	
12	2
36	6
54	9

5)

Input	Output
64	
56	7
80	10
72	9
16	2

6)

Input	Output
63	9
14	2
70	10
21	
56	8

7)

In	10		4	6
Out	20	14	8	12

8)

In	10	2	6	8
Out	13		9	11

9)

In	60	48	36	42
Out	10	8		7

10)

In	18	14	20	17
Out	6	2		5

11)

In	9	6	4	2
Out		20	18	16

12)

In	6	10	8	
Out	30	50	40	45

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
3	18
6	36
10	60
5	30
	54

2)

Input	Output
5	14
8	17
3	12
10	
9	18

3)

Input	Output
	15
2	14
7	19
9	21
6	18

4)

Input	Output
10	100
	80
5	50
3	30
2	20

5)

Input	Output
8	15
10	17
7	14
5	12
6	

6)

Input	Output
12	10
6	4
	2
8	6
9	7

7)

In	8	9	7	6
Out	64	72	56	

8)

In		72	63	27
Out	2	8	7	3

9)

In	22	18	26	20
Out	6	2	10	4

10)

In		24	27	12
Out	7	8	9	4

11)

In	8	9	10	2
Out	10	11	12	

12)

In	10	12	9	8
Out	8		7	6

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
3	18
6	36
10	60
5	30
9	54

Rule: Mult by 6

2)

Input	Output
5	14
8	17
3	12
10	19
9	18

Rule: Add 9

3)

Input	Output
3	15
2	14
7	19
9	21
6	18

Rule: Add 12

4)

Input	Output
10	100
8	80
5	50
3	30
2	20

Rule: Mult by 10

5)

Input	Output
8	15
10	17
7	14
5	12
6	13

Rule: Add 7

6)

Input	Output
12	10
6	4
4	2
8	6
9	7

Rule: Sub 2

7)

In	8	9	7	6
Out	64	72	56	48

Rule: Mult by 8

8)

In	18	72	63	27
Out	2	8	7	3

Rule: Div by 9

9)

In	22	18	26	20
Out	6	2	10	4

Rule: Sub 16

10)

In	21	24	27	12
Out	7	8	9	4

Rule: Div by 3

11)

In	8	9	10	2
Out	10	11	12	4

Rule: Add 2

12)

In	10	12	9	8
Out	8	10	7	6

Rule: Sub 2

Answers1. 92. 193. 34. 85. 136. 47. 488. 189. 2410. 2111. 412. 10



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
3	18
6	36
10	60
5	30
	54

2)

Input	Output
5	14
8	17
3	12
10	
9	18

3)

Input	Output
	15
2	14
7	19
9	21
6	18

4)

Input	Output
10	100
	80
5	50
3	30
2	20

5)

Input	Output
8	15
10	17
7	14
5	12
6	

6)

Input	Output
12	10
6	4
	2
8	6
9	7

7)

In	8	9	7	6
Out	64	72	56	

8)

In		72	63	27
Out	2	8	7	3

9)

In	22	18	26	20
Out	6	2	10	4

10)

In		24	27	12
Out	7	8	9	4

11)

In	8	9	10	2
Out	10	11	12	

12)

In	10	12	9	8
Out	8		7	6

Answers

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



Determine the number that correctly fills in the blank in the function machine.

Answers

1)

Input	Output
8	5
10	7
5	2
12	9
	4

2)

Input	Output
27	3
63	7
72	
81	9
45	5

3)

Input	Output
3	19
9	25
6	22
2	
10	26

4)

Input	Output
27	8
22	3
26	7
25	6
21	

5)

Input	Output
17	5
16	4
	9
22	10
14	2

6)

Input	Output
5	40
3	24
6	48
	32
2	16

7)

In	48	12		54
Out	8	2	10	9

8)

In		5	12	6
Out	6	3	10	4

9)

In	18		10	4
Out	9	6	5	2

10)

In	10	6	2	8
Out		42	14	56

11)

In	8	5		3
Out	40	25	10	15

12)

In	10	6	4	5
Out	18	14	12	13

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
8	5
10	7
5	2
12	9
7	4

Rule: Sub 3

2)

Input	Output
27	3
63	7
72	8
81	9
45	5

Rule: Div by 9

3)

Input	Output
3	19
9	25
6	22
2	18
10	26

Rule: Add 16

4)

Input	Output
27	8
22	3
26	7
25	6
21	2

Rule: Sub 19

5)

Input	Output
17	5
16	4
21	9
22	10
14	2

Rule: Sub 12

6)

Input	Output
5	40
3	24
6	48
4	32
2	16

Rule: Mult by 8

7)

In	48	12	60	54
Out	8	2	10	9

Rule: Div by 6

8)

In	8	5	12	6
Out	6	3	10	4

Rule: Sub 2

9)

In	18	12	10	4
Out	9	6	5	2

Rule: Div by 2

10)

In	10	6	2	8
Out	70	42	14	56

Rule: Mult by 7

11)

In	8	5	2	3
Out	40	25	10	15

Rule: Mult by 5

12)

In	10	6	4	5
Out	18	14	12	13

Rule: Add 8

Answers1. 72. 83. 184. 25. 216. 47. 608. 89. 1210. 7011. 212. 8



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
8	5
10	7
5	2
12	9
	4

2)

Input	Output
27	3
63	7
72	
81	9
45	5

3)

Input	Output
3	19
9	25
6	22
2	
10	26

4)

Input	Output
27	8
22	3
26	7
25	6
21	

5)

Input	Output
17	5
16	4
	9
22	10
14	2

6)

Input	Output
5	40
3	24
6	48
	32
2	16

7)

In	48	12		54
Out	8	2	10	9

8)

In		5	12	6
Out	6	3	10	4

9)

In	18		10	4
Out	9	6	5	2

10)

In	10	6	2	8
Out		42	14	56

11)

In	8	5		3
Out	40	25	10	15

12)

In	10	6	4	5
Out	18	14	12	13

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
12	2
54	9
18	3
36	
30	5

2)

Input	Output
10	70
6	42
4	28
	56
9	63

3)

Input	Output
9	45
5	
7	35
4	20
2	10

4)

Input	Output
3	
10	20
5	10
9	18
2	4

5)

Input	Output
5	15
	18
4	12
8	24
3	9

6)

Input	Output
36	9
24	
28	7
12	3
32	8

7)

In	7	10	8	5
Out	24	27	25	22

8)

In	12	10	14	13
Out	6	4	8	7

9)

In	11	9	8	13
Out	5	3	2	

10)

In		42	21	49
Out	9	6	3	7

11)

In		9	4	5
Out	14	13	8	9

12)

In		10	8	7
Out	3	7	5	4

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
12	2
54	9
18	3
36	6
30	5

Rule: Div by 6

2)

Input	Output
10	70
6	42
4	28
8	56
9	63

Rule: Mult by 7

3)

Input	Output
9	45
5	25
7	35
4	20
2	10

Rule: Mult by 5

4)

Input	Output
3	6
10	20
5	10
9	18
2	4

Rule: Mult by 2

5)

Input	Output
5	15
6	18
4	12
8	24
3	9

Rule: Mult by 3

6)

Input	Output
36	9
24	6
28	7
12	3
32	8

Rule: Div by 4

7)

In	7	10	8	5
Out	24	27	25	22

Rule: Add 17

8)

In	12	10	14	13
Out	6	4	8	7

Rule: Sub 6

9)

In	11	9	8	13
Out	5	3	2	7

Rule: Sub 6

10)

In	63	42	21	49
Out	9	6	3	7

Rule: Div by 7

11)

In	10	9	4	5
Out	14	13	8	9

Rule: Add 4

12)

In	6	10	8	7
Out	3	7	5	4

Rule: Sub 3

Answers1. 62. 83. 254. 65. 66. 67. 68. 109. 710. 6311. 1012. 6



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
12	2
54	9
18	3
36	
30	5

2)

Input	Output
10	70
6	42
4	28
	56
9	63

3)

Input	Output
9	45
5	
7	35
4	20
2	10

4)

Input	Output
3	
10	20
5	10
9	18
2	4

5)

Input	Output
5	15
	18
4	12
8	24
3	9

6)

Input	Output
36	9
24	
28	7
12	3
32	8

7)

In	7	10	8	5
Out	24	27	25	22

8)

In	12	10	14	13
Out	6	4	8	7

9)

In	11	9	8	13
Out	5	3	2	

10)

In		42	21	49
Out	9	6	3	7

11)

In		9	4	5
Out	14	13	8	9

12)

In		10	8	7
Out	3	7	5	4

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
10	80
5	40
7	56
4	
2	16

2)

Input	Output
	12
2	10
10	18
9	17
5	13

3)

Input	Output
7	24
	26
4	21
6	23
8	25

4)

Input	Output
10	16
7	13
9	15
	12
5	11

5)

Input	Output
	4
20	2
100	10
70	7
50	5

6)

Input	Output
56	7
32	4
72	9
40	5
	2

7)

In	7	3	5	4
Out	26	22	24	23

8)

In	3	7	5	
Out	27	63	45	36

9)

In	15	13	16	
Out	9	7	10	5

10)

In	6	4	7	8
Out	30	20	35	40

11)

In		40	10	35
Out	6	8	2	7

12)

In	7	3		4
Out	14	6	12	8

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
10	80
5	40
7	56
4	32
2	16

Rule: Mult by 8

2)

Input	Output
4	12
2	10
10	18
9	17
5	13

Rule: Add 8

3)

Input	Output
7	24
9	26
4	21
6	23
8	25

Rule: Add 17

4)

Input	Output
10	16
7	13
9	15
6	12
5	11

Rule: Add 6

5)

Input	Output
40	4
20	2
100	10
70	7
50	5

Rule: Div by 10

6)

Input	Output
56	7
32	4
72	9
40	5
16	2

Rule: Div by 8

7)

In	7	3	5	4
Out	26	22	24	23

Rule: Add 19

8)

In	3	7	5	4
Out	27	63	45	36

Rule: Mult by 9

9)

In	15	13	16	11
Out	9	7	10	5

Rule: Sub 6

10)

In	6	4	7	8
Out	30	20	35	40

Rule: Mult by 5

11)

In	30	40	10	35
Out	6	8	2	7

Rule: Div by 5

12)

In	7	3	6	4
Out	14	6	12	8

Rule: Mult by 2

Answers

1. 32
2. 4
3. 9
4. 6
5. 40
6. 16
7. 2
8. 4
9. 11
10. 9
11. 30
12. 6



Determine the number that correctly fills in the blank in the function machine.

Answers

1)

Input	Output
10	80
5	40
7	56
4	
2	16

2)

Input	Output
	12
2	10
10	18
9	17
5	13

3)

Input	Output
7	24
	26
4	21
6	23
8	25

4)

Input	Output
10	16
7	13
9	15
	12
5	11

5)

Input	Output
	4
20	2
100	10
70	7
50	5

6)

Input	Output
56	7
32	4
72	9
40	5
	2

7)

In	7	3	5	4
Out	26	22	24	23

8)

In	3	7	5	
Out	27	63	45	36

9)

In	15	13	16	
Out	9	7	10	5

10)

In	6	4	7	8
Out	30	20	35	40

11)

In		40	10	35
Out	6	8	2	7

12)

In	7	3		4
Out	14	6	12	8

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
3	30
9	
4	40
2	20
6	60

2)

Input	Output
50	5
	4
80	8
20	2
30	3

3)

Input	Output
4	2
	4
6	3
16	8
14	7

4)

Input	Output
15	3
17	5
22	10
	6
14	2

5)

Input	Output
10	30
5	15
6	18
3	9
	6

6)

Input	Output
9	5
14	
6	2
13	9
10	6

7)

In	8	36	24	32
Out	2	9	6	8

8)

In	20	24	23	25
Out	2	6		7

9)

In	2	9	6	7
Out	7		11	12

10)

In	8	7	3	9
Out		27	23	29

11)

In	7	6	5	
Out	20	19	18	22

12)

In	5	10	3	4
Out	15	30	9	

Answers

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



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
3	30
9	90
4	40
2	20
6	60

Rule: Mult by 10

2)

Input	Output
50	5
40	4
80	8
20	2
30	3

Rule: Div by 10

3)

Input	Output
4	2
8	4
6	3
16	8
14	7

Rule: Div by 2

4)

Input	Output
15	3
17	5
22	10
18	6
14	2

Rule: Sub 12

5)

Input	Output
10	30
5	15
6	18
3	9
2	6

Rule: Mult by 3

6)

Input	Output
9	5
14	10
6	2
13	9
10	6

Rule: Sub 4

7)

In	8	36	24	32
Out	2	9	6	8

Rule: Div by 4

8)

In	20	24	23	25
Out	2	6	5	7

Rule: Sub 18

9)

In	2	9	6	7
Out	7	14	11	12

Rule: Add 5

10)

In	8	7	3	9
Out	28	27	23	29

Rule: Add 20

11)

In	7	6	5	9
Out	20	19	18	22

Rule: Add 13

12)

In	5	10	3	4
Out	15	30	9	12

Rule: Mult by 3

Answers

1. 90
2. 40
3. 8
4. 18
5. 2
6. 10
7. 7
8. 5
9. 14
10. 28
11. 9
12. 12



Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
3	30
9	
4	40
2	20
6	60

2)

Input	Output
50	5
	4
80	8
20	2
30	3

3)

Input	Output
4	2
	4
6	3
16	8
14	7

4)

Input	Output
15	3
17	5
22	10
	6
14	2

5)

Input	Output
10	30
5	15
6	18
3	9
	6

6)

Input	Output
9	5
14	
6	2
13	9
10	6

7)

In	8	36	24	32
Out	2	9	6	8

8)

In	20	24	23	25
Out	2	6		7

9)

In	2	9	6	7
Out	7		11	12

10)

In	8	7	3	9
Out		27	23	29

11)

In	7	6	5	
Out	20	19	18	22

12)

In	5	10	3	4
Out	15	30	9	

Answers

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