Function Machines - Filling in Missing Digit Name:

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

1)

Input	Output
5	45
7	63
2	
9	81
4	36

2)

Input	Output
6	3
10	7
11	8
12	9
8	

3)

Input	Output
	3
72	9
48	6
16	2
80	10

4)

Input	Output
8	48
3	18
7	42
	36
2	12

5)

Input	Output
5	10
	8
9	18
10	20
2	4

6)

Input	Output
5	14
3	12
6	15
4	
2	11

7)

In	16	10	18	
Out	8	2	10	9

8)

In	6		10	4
Out	42	21	70	28

9)

In	11	8	7	4
Out	9		5	2

10)

In		6	2	8
Out	21	17	13	19

11)

In	8		2	3
Out	16	13	10	11

12)

In	50	30	20	25
Out	10	6		5

Answers

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

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name: **Answer Key**

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

1)

Input	Output
5	45
7	63
2	18
9	81
4	36

Rule: Mult by 9

2)

Input	Output
6	3
10	7
11	8
12	9
8	5

Rule: Sub 3

3)

Input	Output
24	3
72	9
48	6
16	2
80	10

Rule: Div by 8

4)

Input	Output
8	48
3	18
7	42
6	36
2	12

Rule: Mult by 6

5)

Input	Output
5	10
4	8
9	18
10	20
2	4

Rule: Mult by 2

6)

Input	Output
5	14
3	12
6	15
4	13
2	11

Rule: Add 9

7)

In	16	10	18	17
Out	8	2	10	9

Rule: Sub 8

8)

In	6	3	10	4
Out	42	21	70	28

Rule: Mult by 7

9)

In	11	8	7	4
Out	9	6	5	2

Rule: Sub 2

10)

In	10	6	2	8
Out	21	17	13	19

Rule: Add 11

11)

In	8	5	2	3
Out	16	13	10	11

Rule: Add 8

12)

In	50	30	20	25
Out	10	6	4	5

Rule: Div by 5

Answers

1. 18
2. 5
3. 24
4. 6
5. 4
6. 13
7. 17
8. 3
9. 6
10. 10
11. 5
12. 4

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								