Function Machines - Creating Equations Name:

Write an equation to show the relationship between the input and the output.

1)

Input (b)	Output (n)
2	20
5	23
7	25
4	22
9	27

2)

Input (n)	Output (b)
30	5
54	9
48	8
36	6
24	4

3)

Input (i)	Output (g)
14	8
15	9
16	10
10	4
11	5

4)

Input (d)	Output (p)
4	36
10	90
3	27
8	72
5	45

5)

Input (b)	Output (n)
56	8
70	10
42	6
14	2
49	7

6)

Input (k)	Output (g)
4	6
5	7
3	5
6	8
8	10

7)

In (e)	24	20	27	28
Out (v)	6	2	9	10

8)

In (w)	9	6	5	8
Out (g)	45	30	25	40

9)

In (m)	4	2	5	9
Out (p)	19	17	20	24

10)

In (s)	19	15	17	22
Out (l)	6	2	4	9

11)

In (p)	5	6	9	4
Out (u)	40	48	72	32

12)

In (v)	6	4	5	7
Out (d)	19	17	18	20

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 - Creating Equations Name: **Answer Key**

Write an equation to show the relationship between the input and the output.

1)

Input (b)	Output (n)
2	20
5	23
7	25
4	22
9	27

b + 18 = n

2)

Input (n)	Output (b)
30	5
54	9
48	8
36	6
24	4

n ÷ 6 = b

3)

Input (i)	Output (g)
14	8
15	9
16	10
10	4
11	5

i - 6 = g

4)

Input (d)	Output (p)
4	36
10	90
3	27
8	72
5	45

d × 9 = p

5)

Input (b)	Output (n)
56	8
70	10
42	6
14	2
49	7

b ÷ 7 = n

6)

Input (k)	Output (g)
4	6
5	7
3	5
6	8
8	10

k + 2 = g

7)

In (e)	24	20	27	28
Out (v)	6	2	9	10

e - 18 = v

8)

In (w)	9	6	5	8
Out (g)	45	30	25	40

w × 5 = g

9)

In (m)	4	2	5	9
Out (p)	19	17	20	24

m + 15 = p

10)

In (s)	19	15	17	22
Out (l)	6	2	4	9

s - 13 = l

11)

In (p)	5	6	9	4
Out (u)	40	48	72	32

p × 8 = u

12)

In (v)	6	4	5	7
Out (d)	19	17	18	20

v + 13 = d

Answers

1. b + 18 = n
2. n ÷ 6 = b
3. i - 6 = g
4. d × 9 = p
5. b ÷ 7 = n
6. k + 2 = g
7. e - 18 = v
8. w × 5 = g
9. m + 15 = p
10. s - 13 = l
11. p × 8 = u
12. v + 13 = d

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