Function Machines - Creating Equations Name:

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

1)

Input (b)	Output (d)
5	45
2	18
4	36
9	81
10	90

2)

Input (i)	Output (m)
10	9
8	7
4	3
11	10
5	4

3)

Input (i)	Output (m)
16	2
80	10
32	4
40	5
72	9

4)

Input (j)	Output (y)
3	18
10	60
7	42
6	36
2	12

5)

Input (z)	Output (y)
10	20
2	4
5	10
4	8
8	16

6)

Input (j)	Output (b)
8	11
7	10
4	7
6	9
2	5

7)

In (d)	23	20	19	17
Out (b)	10	7	6	4

8)

In (a)	5	8	3	10
Out (u)	35	56	21	70

9)

In (c)	10	9	4	3
Out (z)	9	8	3	2

10)

In (t)	9	5	3	6
Out (n)	28	24	22	25

11)

In (p)	3	5	2	7
Out (i)	8	10	7	12

12)

In (d)	35	40	30	20
Out (n)	7	8	6	4

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								

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

1)

Input (b)	Output (d)
5	45
2	18
4	36
9	81
10	90

b × 9 = d

2)

Input (i)	Output (m)
10	9
8	7
4	3
11	10
5	4

i - 1 = m

3)

Input (i)	Output (m)
16	2
80	10
32	4
40	5
72	9

i ÷ 8 = m

4)

Input (j)	Output (y)
3	18
10	60
7	42
6	36
2	12

j × 6 = y

5)

Input (z)	Output (y)
10	20
2	4
5	10
4	8
8	16

z × 2 = y

6)

Input (j)	Output (b)
8	11
7	10
4	7
6	9
2	5

j + 3 = b

7)

In (d)	23	20	19	17
Out (b)	10	7	6	4

d - 13 = b

8)

In (a)	5	8	3	10
Out (u)	35	56	21	70

a × 7 = u

9)

In (c)	10	9	4	3
Out (z)	9	8	3	2

c - 1 = z

10)

In (t)	9	5	3	6
Out (n)	28	24	22	25

t + 19 = n

11)

In (p)	3	5	2	7
Out (i)	8	10	7	12

p + 5 = i

12)

In (d)	35	40	30	20
Out (n)	7	8	6	4

d ÷ 5 = n

Answers

1. b × 9 = d
2. i - 1 = m
3. i ÷ 8 = m
4. j × 6 = y
5. z × 2 = y
6. j + 3 = b
7. d - 13 = b
8. a × 7 = u
9. c - 1 = z
10. t + 19 = n
11. p + 5 = i
12. d ÷ 5 = n

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