Function Machines - Creating Equations Name:

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

1)

Input (n)	Output (o)
27	8
28	9
21	2
29	10
24	5

2)

Input (s)	Output (j)
19	4
25	10
18	3
23	8
22	7

3)

Input (i)	Output (w)
15	5
14	4
12	2
13	3
18	8

4)

Input (m)	Output (q)
20	5
28	7
12	3
16	4
36	9

5)

Input (v)	Output (w)
15	5
18	6
6	2
24	8
21	7

6)

Input (z)	Output (d)
5	10
8	16
7	14
3	6
2	4

7)

In (q)	6	4	3	5
Out (n)	11	9	8	10

8)

In (o)	7	10	2	6
Out (a)	28	40	8	24

9)

In (y)	8	2	3	4
Out (s)	56	14	21	28

10)

In (l)	16	14	10	18
Out (z)	8	7	5	9

11)

In (c)	9	3	10	8
Out (q)	22	16	23	21

12)

In (d)	2	6	3	10
Out (r)	12	36	18	60

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 (n)	Output (o)
27	8
28	9
21	2
29	10
24	5

n - 19 = o

2)

Input (s)	Output (j)
19	4
25	10
18	3
23	8
22	7

s - 15 = j

3)

Input (i)	Output (w)
15	5
14	4
12	2
13	3
18	8

i - 10 = w

4)

Input (m)	Output (q)
20	5
28	7
12	3
16	4
36	9

m ÷ 4 = q

5)

Input (v)	Output (w)
15	5
18	6
6	2
24	8
21	7

v ÷ 3 = w

6)

Input (z)	Output (d)
5	10
8	16
7	14
3	6
2	4

z × 2 = d

7)

In (q)	6	4	3	5
Out (n)	11	9	8	10

q + 5 = n

8)

In (o)	7	10	2	6
Out (a)	28	40	8	24

o × 4 = a

9)

In (y)	8	2	3	4
Out (s)	56	14	21	28

y × 7 = s

10)

In (l)	16	14	10	18
Out (z)	8	7	5	9

l ÷ 2 = z

11)

In (c)	9	3	10	8
Out (q)	22	16	23	21

c + 13 = q

12)

In (d)	2	6	3	10
Out (r)	12	36	18	60

d × 6 = r

Answers

1. n - 19 = o
2. s - 15 = j
3. i - 10 = w
4. m ÷ 4 = q
5. v ÷ 3 = w
6. z × 2 = d
7. q + 5 = n
8. o × 4 = a
9. y × 7 = s
10. l ÷ 2 = z
11. c + 13 = q
12. d × 6 = r

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