Function Machines - Creating Equations Name:

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

1)

Input (z)	Output (q)
30	5
60	10
54	9
36	6
18	3

2)

Input (f)	Output (h)
6	48
5	40
7	56
9	72
10	80

3)

Input (g)	Output (h)
8	56
2	14
9	63
6	42
10	70

4)

Input (p)	Output (a)
11	4
17	10
9	2
13	6
10	3

5)

Input (l)	Output (o)
20	9
17	6
15	4
13	2
16	5

6)

Input (t)	Output (l)
6	4
5	3
4	2
8	6
9	7

7)

In (m)	9	10	7	2
Out (k)	13	14	11	6

8)

In (e)	16	12	20	10
Out (s)	8	6	10	5

9)

In (y)	6	5	11	4
Out (i)	5	4	10	3

10)

In (w)	3	4	5	7
Out (t)	18	24	30	42

11)

In (g)	30	10	25	15
Out (v)	6	2	5	3

12)

In (q)	2	6	8	3
Out (y)	16	20	22	17

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 (z)	Output (q)
30	5
60	10
54	9
36	6
18	3

z ÷ 6 = q

2)

Input (f)	Output (h)
6	48
5	40
7	56
9	72
10	80

f × 8 = h

3)

Input (g)	Output (h)
8	56
2	14
9	63
6	42
10	70

g × 7 = h

4)

Input (p)	Output (a)
11	4
17	10
9	2
13	6
10	3

p - 7 = a

5)

Input (l)	Output (o)
20	9
17	6
15	4
13	2
16	5

l - 11 = o

6)

Input (t)	Output (l)
6	4
5	3
4	2
8	6
9	7

t - 2 = l

7)

In (m)	9	10	7	2
Out (k)	13	14	11	6

m + 4 = k

8)

In (e)	16	12	20	10
Out (s)	8	6	10	5

e ÷ 2 = s

9)

In (y)	6	5	11	4
Out (i)	5	4	10	3

y - 1 = i

10)

In (w)	3	4	5	7
Out (t)	18	24	30	42

w × 6 = t

11)

In (g)	30	10	25	15
Out (v)	6	2	5	3

g ÷ 5 = v

12)

In (q)	2	6	8	3
Out (y)	16	20	22	17

q + 14 = y

Answers

1. z ÷ 6 = q
2. f × 8 = h
3. g × 7 = h
4. p - 7 = a
5. l - 11 = o
6. t - 2 = l
7. m + 4 = k
8. e ÷ 2 = s
9. y - 1 = i
10. w × 6 = t
11. g ÷ 5 = v
12. q + 14 = y

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