Function Machines - Creating Equations Name:

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

1)

Input (p)	Output (c)
56	8
63	9
21	3
70	10
35	5

2)

Input (j)	Output (i)
2	14
7	49
10	70
8	56
9	63

3)

Input (c)	Output (d)
9	24
3	18
7	22
6	21
8	23

4)

Input (n)	Output (s)
4	6
5	7
8	10
2	4
7	9

5)

Input (i)	Output (g)
4	16
10	40
5	20
8	32
9	36

6)

Input (a)	Output (h)
26	6
29	9
22	2
25	5
24	4

7)

In (t)	24	20	22	19
Out (n)	7	3	5	2

8)

In (q)	4	3	9	8
Out (n)	36	27	81	72

9)

In (w)	24	16	56	32
Out (i)	3	2	7	4

10)

In (j)	9	4	10	8
Out (y)	11	6	12	10

11)

In (m)	24	48	12	54
Out (z)	4	8	2	9

12)

In (t)	9	6	5	7
Out (q)	45	30	25	35

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 (p)	Output (c)
56	8
63	9
21	3
70	10
35	5

p ÷ 7 = c

2)

Input (j)	Output (i)
2	14
7	49
10	70
8	56
9	63

j × 7 = i

3)

Input (c)	Output (d)
9	24
3	18
7	22
6	21
8	23

c + 15 = d

4)

Input (n)	Output (s)
4	6
5	7
8	10
2	4
7	9

n + 2 = s

5)

Input (i)	Output (g)
4	16
10	40
5	20
8	32
9	36

i × 4 = g

6)

Input (a)	Output (h)
26	6
29	9
22	2
25	5
24	4

a - 20 = h

7)

In (t)	24	20	22	19
Out (n)	7	3	5	2

t - 17 = n

8)

In (q)	4	3	9	8
Out (n)	36	27	81	72

q × 9 = n

9)

In (w)	24	16	56	32
Out (i)	3	2	7	4

w ÷ 8 = i

10)

In (j)	9	4	10	8
Out (y)	11	6	12	10

j + 2 = y

11)

In (m)	24	48	12	54
Out (z)	4	8	2	9

m ÷ 6 = z

12)

In (t)	9	6	5	7
Out (q)	45	30	25	35

t × 5 = q

Answers

1. p ÷ 7 = c
2. j × 7 = i
3. c + 15 = d
4. n + 2 = s
5. i × 4 = g
6. a - 20 = h
7. t - 17 = n
8. q × 9 = n
9. w ÷ 8 = i
10. j + 2 = y
11. m ÷ 6 = z
12. t × 5 = q

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

Function Machines - Creating Equations Name:

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

1)

Input (p)	Output (g)
70	10
42	6
35	5
21	3
28	4

2)

Input (b)	Output (a)
3	20
6	23
8	25
9	26
7	24

3)

Input (l)	Output (w)
3	15
10	50
6	30
4	20
2	10

4)

Input (o)	Output (d)
9	5
12	8
14	10
10	6
13	9

5)

Input (d)	Output (q)
11	4
17	10
14	7
9	2
15	8

6)

Input (q)	Output (a)
8	24
6	18
2	6
5	15
3	9

7)

In (z)	8	2	4	9
Out (t)	21	15	17	22

8)

In (y)	8	3	5	9
Out (c)	12	7	9	13

9)

In (j)	16	40	64	72
Out (e)	2	5	8	9

10)

In (i)	25	26	28	23
Out (k)	5	6	8	3

11)

In (u)	80	50	90	20
Out (b)	8	5	9	2

12)

In (p)	20	16	17	14
Out (q)	9	5	6	3

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 (p)	Output (g)
70	10
42	6
35	5
21	3
28	4

p ÷ 7 = g

2)

Input (b)	Output (a)
3	20
6	23
8	25
9	26
7	24

b + 17 = a

3)

Input (l)	Output (w)
3	15
10	50
6	30
4	20
2	10

l × 5 = w

4)

Input (o)	Output (d)
9	5
12	8
14	10
10	6
13	9

o - 4 = d

5)

Input (d)	Output (q)
11	4
17	10
14	7
9	2
15	8

d - 7 = q

6)

Input (q)	Output (a)
8	24
6	18
2	6
5	15
3	9

q × 3 = a

7)

In (z)	8	2	4	9
Out (t)	21	15	17	22

z + 13 = t

8)

In (y)	8	3	5	9
Out (c)	12	7	9	13

y + 4 = c

9)

In (j)	16	40	64	72
Out (e)	2	5	8	9

j ÷ 8 = e

10)

In (i)	25	26	28	23
Out (k)	5	6	8	3

i - 20 = k

11)

In (u)	80	50	90	20
Out (b)	8	5	9	2

u ÷ 10 = b

12)

In (p)	20	16	17	14
Out (q)	9	5	6	3

p - 11 = q

Answers

1. p ÷ 7 = g
2. b + 17 = a
3. l × 5 = w
4. o - 4 = d
5. d - 7 = q
6. q × 3 = a
7. z + 13 = t
8. y + 4 = c
9. j ÷ 8 = e
10. i - 20 = k
11. u ÷ 10 = b
12. p - 11 = q

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

Function Machines - Creating Equations Name:

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

1)

Input (o)	Output (j)
9	36
7	28
5	20
3	12
6	24

2)

Input (m)	Output (h)
6	12
7	13
4	10
9	15
10	16

3)

Input (g)	Output (f)
9	27
5	15
10	30
4	12
2	6

4)

Input (j)	Output (t)
17	7
13	3
12	2
20	10
18	8

5)

Input (h)	Output (l)
30	6
20	4
45	9
50	10
15	3

6)

Input (z)	Output (j)
90	10
81	9
18	2
63	7
45	5

7)

In (s)	18	12	16	6
Out (q)	9	6	8	3

8)

In (g)	7	10	3	2
Out (w)	70	100	30	20

9)

In (e)	3	2	4	6
Out (g)	12	11	13	15

10)

In (a)	19	17	21	22
Out (e)	6	4	8	9

11)

In (j)	7	3	6	2
Out (w)	21	9	18	6

12)

In (k)	19	20	23	21
Out (g)	5	6	9	7

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 (o)	Output (j)
9	36
7	28
5	20
3	12
6	24

o × 4 = j

2)

Input (m)	Output (h)
6	12
7	13
4	10
9	15
10	16

m + 6 = h

3)

Input (g)	Output (f)
9	27
5	15
10	30
4	12
2	6

g × 3 = f

4)

Input (j)	Output (t)
17	7
13	3
12	2
20	10
18	8

j - 10 = t

5)

Input (h)	Output (l)
30	6
20	4
45	9
50	10
15	3

h ÷ 5 = l

6)

Input (z)	Output (j)
90	10
81	9
18	2
63	7
45	5

z ÷ 9 = j

7)

In (s)	18	12	16	6
Out (q)	9	6	8	3

s ÷ 2 = q

8)

In (g)	7	10	3	2
Out (w)	70	100	30	20

g × 10 = w

9)

In (e)	3	2	4	6
Out (g)	12	11	13	15

e + 9 = g

10)

In (a)	19	17	21	22
Out (e)	6	4	8	9

a - 13 = e

11)

In (j)	7	3	6	2
Out (w)	21	9	18	6

j × 3 = w

12)

In (k)	19	20	23	21
Out (g)	5	6	9	7

k - 14 = g

Answers

1. o × 4 = j
2. m + 6 = h
3. g × 3 = f
4. j - 10 = t
5. h ÷ 5 = l
6. z ÷ 9 = j
7. s ÷ 2 = q
8. g × 10 = w
9. e + 9 = g
10. a - 13 = e
11. j × 3 = w
12. k - 14 = g

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

Function Machines - Creating Equations Name:

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

1)

Input (s)	Output (w)
15	3
19	7
21	9
17	5
20	8

2)

Input (r)	Output (b)
3	7
7	11
8	12
5	9
4	8

3)

Input (f)	Output (r)
9	26
3	20
4	21
6	23
8	25

4)

Input (a)	Output (t)
16	4
14	2
18	6
19	7
20	8

5)

Input (w)	Output (r)
20	10
8	4
14	7
16	8
18	9

6)

Input (c)	Output (j)
4	16
9	36
8	32
3	12
10	40

7)

In (n)	9	14	11	17
Out (p)	2	7	4	10

8)

In (c)	9	7	10	4
Out (q)	54	42	60	24

9)

In (m)	15	12	9	21
Out (b)	5	4	3	7

10)

In (b)	7	4	5	9
Out (y)	12	9	10	14

11)

In (e)	4	5	3	6
Out (u)	32	40	24	48

12)

In (l)	11	9	10	13
Out (a)	6	4	5	8

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 (s)	Output (w)
15	3
19	7
21	9
17	5
20	8

s - 12 = w

2)

Input (r)	Output (b)
3	7
7	11
8	12
5	9
4	8

r + 4 = b

3)

Input (f)	Output (r)
9	26
3	20
4	21
6	23
8	25

f + 17 = r

4)

Input (a)	Output (t)
16	4
14	2
18	6
19	7
20	8

a - 12 = t

5)

Input (w)	Output (r)
20	10
8	4
14	7
16	8
18	9

w ÷ 2 = r

6)

Input (c)	Output (j)
4	16
9	36
8	32
3	12
10	40

c × 4 = j

7)

In (n)	9	14	11	17
Out (p)	2	7	4	10

n - 7 = p

8)

In (c)	9	7	10	4
Out (q)	54	42	60	24

c × 6 = q

9)

In (m)	15	12	9	21
Out (b)	5	4	3	7

m ÷ 3 = b

10)

In (b)	7	4	5	9
Out (y)	12	9	10	14

b + 5 = y

11)

In (e)	4	5	3	6
Out (u)	32	40	24	48

e × 8 = u

12)

In (l)	11	9	10	13
Out (a)	6	4	5	8

l - 5 = a

Answers

1. s - 12 = w
2. r + 4 = b
3. f + 17 = r
4. a - 12 = t
5. w ÷ 2 = r
6. c × 4 = j
7. n - 7 = p
8. c × 6 = q
9. m ÷ 3 = b
10. b + 5 = y
11. e × 8 = u
12. l - 5 = a

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

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								

Function Machines - Creating Equations Name: **Answer Key**

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								

Function Machines - Creating Equations Name:

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

1)

Input (j)	Output (d)
9	22
4	17
10	23
7	20
6	19

2)

Input (c)	Output (l)
54	9
30	5
42	7
36	6
24	4

3)

Input (c)	Output (b)
20	2
100	10
40	4
30	3
80	8

4)

Input (v)	Output (j)
4	24
5	25
9	29
6	26
10	30

5)

Input (g)	Output (h)
40	5
80	10
24	3
64	8
48	6

6)

Input (e)	Output (f)
3	27
6	54
5	45
9	81
4	36

7)

In (g)	5	2	7	9
Out (c)	12	9	14	16

8)

In (a)	24	17	23	16
Out (p)	10	3	9	2

9)

In (y)	6	9	7	4
Out (q)	18	27	21	12

10)

In (e)	12	14	10	11
Out (j)	6	8	4	5

11)

In (i)	35	30	25	45
Out (h)	7	6	5	9

12)

In (c)	8	5	4	10
Out (f)	32	20	16	40

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 (j)	Output (d)
9	22
4	17
10	23
7	20
6	19

j + 13 = d

2)

Input (c)	Output (l)
54	9
30	5
42	7
36	6
24	4

c ÷ 6 = l

3)

Input (c)	Output (b)
20	2
100	10
40	4
30	3
80	8

c ÷ 10 = b

4)

Input (v)	Output (j)
4	24
5	25
9	29
6	26
10	30

v + 20 = j

5)

Input (g)	Output (h)
40	5
80	10
24	3
64	8
48	6

g ÷ 8 = h

6)

Input (e)	Output (f)
3	27
6	54
5	45
9	81
4	36

e × 9 = f

7)

In (g)	5	2	7	9
Out (c)	12	9	14	16

g + 7 = c

8)

In (a)	24	17	23	16
Out (p)	10	3	9	2

a - 14 = p

9)

In (y)	6	9	7	4
Out (q)	18	27	21	12

y × 3 = q

10)

In (e)	12	14	10	11
Out (j)	6	8	4	5

e - 6 = j

11)

In (i)	35	30	25	45
Out (h)	7	6	5	9

i ÷ 5 = h

12)

In (c)	8	5	4	10
Out (f)	32	20	16	40

c × 4 = f

Answers

1. j + 13 = d
2. c ÷ 6 = l
3. c ÷ 10 = b
4. v + 20 = j
5. g ÷ 8 = h
6. e × 9 = f
7. g + 7 = c
8. a - 14 = p
9. y × 3 = q
10. e - 6 = j
11. i ÷ 5 = h
12. c × 4 = f

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

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								

Function Machines - Creating Equations Name: **Answer Key**

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								

Function Machines - Creating Equations Name:

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

1)

Input (z)	Output (k)
24	4
26	6
25	5
22	2
28	8

2)

Input (h)	Output (y)
8	24
5	21
9	25
10	26
4	20

3)

Input (v)	Output (m)
5	9
9	13
2	6
8	12
4	8

4)

Input (s)	Output (k)
6	9
7	10
8	11
3	6
2	5

5)

Input (d)	Output (q)
6	11
9	14
7	12
8	13
4	9

6)

Input (j)	Output (p)
21	3
26	8
28	10
24	6
22	4

7)

In (z)	18	48	54	30
Out (n)	3	8	9	5

8)

In (q)	9	7	5	10
Out (y)	63	49	35	70

9)

In (k)	9	7	5	3
Out (p)	45	35	25	15

10)

In (o)	14	15	22	17
Out (l)	2	3	10	5

11)

In (f)	18	12	20	16
Out (j)	9	6	10	8

12)

In (s)	9	10	2	5
Out (e)	27	30	6	15

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 (z)	Output (k)
24	4
26	6
25	5
22	2
28	8

z - 20 = k

2)

Input (h)	Output (y)
8	24
5	21
9	25
10	26
4	20

h + 16 = y

3)

Input (v)	Output (m)
5	9
9	13
2	6
8	12
4	8

v + 4 = m

4)

Input (s)	Output (k)
6	9
7	10
8	11
3	6
2	5

s + 3 = k

5)

Input (d)	Output (q)
6	11
9	14
7	12
8	13
4	9

d + 5 = q

6)

Input (j)	Output (p)
21	3
26	8
28	10
24	6
22	4

j - 18 = p

7)

In (z)	18	48	54	30
Out (n)	3	8	9	5

z ÷ 6 = n

8)

In (q)	9	7	5	10
Out (y)	63	49	35	70

q × 7 = y

9)

In (k)	9	7	5	3
Out (p)	45	35	25	15

k × 5 = p

10)

In (o)	14	15	22	17
Out (l)	2	3	10	5

o - 12 = l

11)

In (f)	18	12	20	16
Out (j)	9	6	10	8

f ÷ 2 = j

12)

In (s)	9	10	2	5
Out (e)	27	30	6	15

s × 3 = e

Answers

1. z - 20 = k
2. h + 16 = y
3. v + 4 = m
4. s + 3 = k
5. d + 5 = q
6. j - 18 = p
7. z ÷ 6 = n
8. q × 7 = y
9. k × 5 = p
10. o - 12 = l
11. f ÷ 2 = j
12. s × 3 = e

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

Function Machines - Creating Equations Name:

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

1)

Input (z)	Output (e)
8	28
4	24
5	25
7	27
10	30

2)

Input (m)	Output (i)
64	8
48	6
72	9
24	3
80	10

3)

Input (z)	Output (p)
90	9
60	6
70	7
50	5
80	8

4)

Input (z)	Output (h)
72	9
56	7
32	4
80	10
24	3

5)

Input (u)	Output (n)
14	10
12	8
9	5
7	3
11	7

6)

Input (h)	Output (f)
15	7
10	2
18	10
17	9
12	4

7)

In (t)	45	18	27	36
Out (h)	5	2	3	4

8)

In (c)	5	8	9	4
Out (g)	8	11	12	7

9)

In (e)	7	10	3	9
Out (j)	35	50	15	45

10)

In (o)	6	7	4	2
Out (h)	9	10	7	5

11)

In (o)	20	26	22	21
Out (y)	3	9	5	4

12)

In (k)	8	9	2	3
Out (a)	14	15	8	9

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 (z)	Output (e)
8	28
4	24
5	25
7	27
10	30

z + 20 = e

2)

Input (m)	Output (i)
64	8
48	6
72	9
24	3
80	10

m ÷ 8 = i

3)

Input (z)	Output (p)
90	9
60	6
70	7
50	5
80	8

z ÷ 10 = p

4)

Input (z)	Output (h)
72	9
56	7
32	4
80	10
24	3

z ÷ 8 = h

5)

Input (u)	Output (n)
14	10
12	8
9	5
7	3
11	7

u - 4 = n

6)

Input (h)	Output (f)
15	7
10	2
18	10
17	9
12	4

h - 8 = f

7)

In (t)	45	18	27	36
Out (h)	5	2	3	4

t ÷ 9 = h

8)

In (c)	5	8	9	4
Out (g)	8	11	12	7

c + 3 = g

9)

In (e)	7	10	3	9
Out (j)	35	50	15	45

e × 5 = j

10)

In (o)	6	7	4	2
Out (h)	9	10	7	5

o + 3 = h

11)

In (o)	20	26	22	21
Out (y)	3	9	5	4

o - 17 = y

12)

In (k)	8	9	2	3
Out (a)	14	15	8	9

k + 6 = a

Answers

1. z + 20 = e
2. m ÷ 8 = i
3. z ÷ 10 = p
4. z ÷ 8 = h
5. u - 4 = n
6. h - 8 = f
7. t ÷ 9 = h
8. c + 3 = g
9. e × 5 = j
10. o + 3 = h
11. o - 17 = y
12. k + 6 = a

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

Function Machines - Creating Equations Name:

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

1)

Input (c)	Output (w)
5	6
8	9
3	4
6	7
2	3

2)

Input (n)	Output (o)
16	2
21	7
24	10
19	5
18	4

3)

Input (w)	Output (h)
13	4
11	2
17	8
18	9
19	10

4)

Input (w)	Output (g)
6	60
7	70
3	30
5	50
8	80

5)

Input (j)	Output (e)
2	4
8	10
6	8
3	5
4	6

6)

Input (k)	Output (f)
8	80
10	100
3	30
2	20
5	50

7)

In (a)	8	10	15	9
Out (n)	3	5	10	4

8)

In (f)	7	5	9	3
Out (a)	14	10	18	6

9)

In (r)	12	30	21	24
Out (a)	4	10	7	8

10)

In (q)	20	8	12	24
Out (n)	5	2	3	6

11)

In (u)	30	24	6	9
Out (k)	10	8	2	3

12)

In (r)	7	10	2	5
Out (e)	13	16	8	11

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 (c)	Output (w)
5	6
8	9
3	4
6	7
2	3

c + 1 = w

2)

Input (n)	Output (o)
16	2
21	7
24	10
19	5
18	4

n - 14 = o

3)

Input (w)	Output (h)
13	4
11	2
17	8
18	9
19	10

w - 9 = h

4)

Input (w)	Output (g)
6	60
7	70
3	30
5	50
8	80

w × 10 = g

5)

Input (j)	Output (e)
2	4
8	10
6	8
3	5
4	6

j + 2 = e

6)

Input (k)	Output (f)
8	80
10	100
3	30
2	20
5	50

k × 10 = f

7)

In (a)	8	10	15	9
Out (n)	3	5	10	4

a - 5 = n

8)

In (f)	7	5	9	3
Out (a)	14	10	18	6

f × 2 = a

9)

In (r)	12	30	21	24
Out (a)	4	10	7	8

r ÷ 3 = a

10)

In (q)	20	8	12	24
Out (n)	5	2	3	6

q ÷ 4 = n

11)

In (u)	30	24	6	9
Out (k)	10	8	2	3

u ÷ 3 = k

12)

In (r)	7	10	2	5
Out (e)	13	16	8	11

r + 6 = e

Answers

1. c + 1 = w
2. n - 14 = o
3. w - 9 = h
4. w × 10 = g
5. j + 2 = e
6. k × 10 = f
7. a - 5 = n
8. f × 2 = a
9. r ÷ 3 = a
10. q ÷ 4 = n
11. u ÷ 3 = k
12. r + 6 = e

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