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 | | | | | | | | |