



Determine the number that correctly fills in the blank in the function machine.

1)

| Input | Output |
|-------|--------|
| 36    | 6      |
| 48    | 8      |
| 24    |        |
| 30    | 5      |
| 54    | 9      |

2)

| Input | Output |
|-------|--------|
| 8     |        |
| 6     | 48     |
| 7     | 56     |
| 2     | 16     |
| 10    | 80     |

3)

| Input | Output |
|-------|--------|
| 8     | 56     |
| 5     | 35     |
| 9     | 63     |
| 6     | 42     |
|       | 21     |

4)

| Input | Output |
|-------|--------|
| 20    | 3      |
| 24    | 7      |
| 19    | 2      |
| 23    |        |
| 26    | 9      |

5)

| Input | Output |
|-------|--------|
| 14    | 8      |
|       | 7      |
| 16    | 10     |
| 15    | 9      |
| 8     | 2      |

6)

| Input | Output |
|-------|--------|
| 28    | 9      |
| 21    | 2      |
|       | 10     |
| 22    | 3      |
| 27    | 8      |

7)

| In  | 10 | 7  | 4 | 6  |
|-----|----|----|---|----|
| Out | 17 | 14 |   | 13 |

8)

| In  | 20 | 4 |   | 16 |
|-----|----|---|---|----|
| Out | 10 | 2 | 6 | 8  |

9)

| In  | 23 | 21 |   | 20 |
|-----|----|----|---|----|
| Out | 10 | 8  | 6 | 7  |

10)

| In  | 6  |    | 8  | 5  |
|-----|----|----|----|----|
| Out | 36 | 12 | 48 | 30 |

11)

| In  | 45 | 30 | 20 | 10 |
|-----|----|----|----|----|
| Out | 9  | 6  | 4  |    |

12)

| In  | 6 | 10 | 8  | 9  |
|-----|---|----|----|----|
| Out |   | 24 | 22 | 23 |

Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_



Determine the number that correctly fills in the blank in the function machine.

1)

| Input | Output |
|-------|--------|
| 36    | 6      |
| 48    | 8      |
| 24    | 4      |
| 30    | 5      |
| 54    | 9      |

Rule: Div by 6

2)

| Input | Output |
|-------|--------|
| 8     | 64     |
| 6     | 48     |
| 7     | 56     |
| 2     | 16     |
| 10    | 80     |

Rule: Mult by 8

3)

| Input | Output |
|-------|--------|
| 8     | 56     |
| 5     | 35     |
| 9     | 63     |
| 6     | 42     |
| 3     | 21     |

Rule: Mult by 7

4)

| Input | Output |
|-------|--------|
| 20    | 3      |
| 24    | 7      |
| 19    | 2      |
| 23    | 6      |
| 26    | 9      |

Rule: Sub 17

5)

| Input | Output |
|-------|--------|
| 14    | 8      |
| 13    | 7      |
| 16    | 10     |
| 15    | 9      |
| 8     | 2      |

Rule: Sub 6

6)

| Input | Output |
|-------|--------|
| 28    | 9      |
| 21    | 2      |
| 29    | 10     |
| 22    | 3      |
| 27    | 8      |

Rule: Sub 19

7)

| In  | 10 | 7  | 4  | 6  |
|-----|----|----|----|----|
| Out | 17 | 14 | 11 | 13 |

Rule: Add 7

8)

| In  | 20 | 4 | 12 | 16 |
|-----|----|---|----|----|
| Out | 10 | 2 | 6  | 8  |

Rule: Div by 2

9)

| In  | 23 | 21 | 19 | 20 |
|-----|----|----|----|----|
| Out | 10 | 8  | 6  | 7  |

Rule: Sub 13

10)

| In  | 6  | 2  | 8  | 5  |
|-----|----|----|----|----|
| Out | 36 | 12 | 48 | 30 |

Rule: Mult by 6

11)

| In  | 45 | 30 | 20 | 10 |
|-----|----|----|----|----|
| Out | 9  | 6  | 4  | 2  |

Rule: Div by 5

12)

| In  | 6  | 10 | 8  | 9  |
|-----|----|----|----|----|
| Out | 20 | 24 | 22 | 23 |

Rule: Add 14

Answers1. 42. 643. 34. 65. 136. 297. 118. 129. 1910. 211. 212. 20