



Determine what rule the function machine is using.

**Answers**

1)

| Input | Output |
|-------|--------|
| 50    | 38     |
| 33    | 21     |
| 49    | 37     |
| 28    | 16     |
| 32    | 20     |

- A. add 21
- B. add 23
- C. subtract 19
- D. subtract 12

2)

| Input | Output |
|-------|--------|
| 41    | 34     |
| 26    | 19     |
| 27    | 20     |
| 49    | 42     |
| 50    | 43     |

- A. subtract 7
- B. add 37
- C. subtract 38
- D. add 31

3)

| Input | Output |
|-------|--------|
| 16    | 29     |
| 45    | 58     |
| 23    | 36     |
| 17    | 30     |
| 26    | 39     |

- A. subtract 21
- B. subtract 18
- C. add 18
- D. add 13

4)

| Input | Output |
|-------|--------|
| 17    | 23     |
| 37    | 43     |
| 45    | 51     |
| 16    | 22     |
| 18    | 24     |

- A. subtract 7
- B. add 6
- C. subtract 3
- D. subtract 8

5)

| Input | Output |
|-------|--------|
| 46    | 33     |
| 55    | 42     |
| 43    | 30     |
| 53    | 40     |
| 62    | 49     |

- A. add 36
- B. subtract 13
- C. subtract 38
- D. add 41

6)

| Input | Output |
|-------|--------|
| 25    | 18     |
| 26    | 19     |
| 17    | 10     |
| 50    | 43     |
| 23    | 16     |

- A. subtract 15
- B. add 8
- C. subtract 7
- D. add 14

7)

| Input | Output |
|-------|--------|
| 30    | 40     |
| 48    | 58     |
| 36    | 46     |
| 44    | 54     |
| 18    | 28     |

- A. add 10
- B. subtract 12
- C. add 14
- D. subtract 15

8)

| Input | Output |
|-------|--------|
| 41    | 48     |
| 25    | 32     |
| 23    | 30     |
| 37    | 44     |
| 22    | 29     |

- A. add 25
- B. subtract 22
- C. add 7
- D. add 26

9)

| Input | Output |
|-------|--------|
| 60    | 45     |
| 28    | 13     |
| 30    | 15     |
| 65    | 50     |
| 56    | 41     |

- A. add 10
- B. add 13
- C. subtract 15
- D. subtract 6

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 50    | 38     |
| 33    | 21     |
| 49    | 37     |
| 28    | 16     |
| 32    | 20     |

- A. add 21
- B. add 23
- C. subtract 19
- D. subtract 12

2)

| Input | Output |
|-------|--------|
| 41    | 34     |
| 26    | 19     |
| 27    | 20     |
| 49    | 42     |
| 50    | 43     |

- A. subtract 7
- B. add 37
- C. subtract 38
- D. add 31

3)

| Input | Output |
|-------|--------|
| 16    | 29     |
| 45    | 58     |
| 23    | 36     |
| 17    | 30     |
| 26    | 39     |

- A. subtract 21
- B. subtract 18
- C. add 18
- D. add 13

4)

| Input | Output |
|-------|--------|
| 17    | 23     |
| 37    | 43     |
| 45    | 51     |
| 16    | 22     |
| 18    | 24     |

- A. subtract 7
- B. add 6
- C. subtract 3
- D. subtract 8

5)

| Input | Output |
|-------|--------|
| 46    | 33     |
| 55    | 42     |
| 43    | 30     |
| 53    | 40     |
| 62    | 49     |

- A. add 36
- B. subtract 13
- C. subtract 38
- D. add 41

6)

| Input | Output |
|-------|--------|
| 25    | 18     |
| 26    | 19     |
| 17    | 10     |
| 50    | 43     |
| 23    | 16     |

- A. subtract 15
- B. add 8
- C. subtract 7
- D. add 14

7)

| Input | Output |
|-------|--------|
| 30    | 40     |
| 48    | 58     |
| 36    | 46     |
| 44    | 54     |
| 18    | 28     |

- A. add 10
- B. subtract 12
- C. add 14
- D. subtract 15

8)

| Input | Output |
|-------|--------|
| 41    | 48     |
| 25    | 32     |
| 23    | 30     |
| 37    | 44     |
| 22    | 29     |

- A. add 25
- B. subtract 22
- C. add 7
- D. add 26

9)

| Input | Output |
|-------|--------|
| 60    | 45     |
| 28    | 13     |
| 30    | 15     |
| 65    | 50     |
| 56    | 41     |

- A. add 10
- B. add 13
- C. subtract 15
- D. subtract 6

**Answers**

- 1.     **D**
- 2.     **A**
- 3.     **D**
- 4.     **B**
- 5.     **B**
- 6.     **C**
- 7.     **A**
- 8.     **C**
- 9.     **C**