



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 13    | 17     |
| 20    | 24     |
| 22    | 26     |
| 41    | 45     |
| 42    | 46     |

- A. Subtract 4
- B. Subtract 5
- C. Add 4
- D. Add 5

2)

| Input | Output |
|-------|--------|
| 14    | 20     |
| 28    | 34     |
| 37    | 43     |
| 42    | 48     |
| 50    | 56     |

- A. Subtract 6
- B. Add 6
- C. Add 8
- D. Add 5

3)

| Input | Output |
|-------|--------|
| 25    | 14     |
| 42    | 31     |
| 42    | 31     |
| 50    | 39     |
| 59    | 48     |

- A. Subtract 8
- B. Subtract 14
- C. Subtract 11
- D. Add 11

4)

| In | Out |
|----|-----|
| 26 | 16  |
| 32 | 22  |
| 44 | 34  |
| 48 | 38  |
| 55 | 45  |

- A. Subtract 11
- B. Add 10
- C. Add 11
- D. Subtract 10

5)

| Input | Output |
|-------|--------|
| 10    | 19     |
| 22    | 31     |
| 23    | 32     |
| 24    | 33     |
| 46    | 55     |

- A. Add 9
- B. Subtract 10
- C. Add 10
- D. Add 6

6)

| In | Out |
|----|-----|
| 17 | 30  |
| 24 | 37  |
| 31 | 44  |
| 40 | 53  |
| 41 | 54  |

- A. Add 15
- B. Subtract 13
- C. Subtract 15
- D. Add 13

7)

| In | Out |
|----|-----|
| 15 | 25  |
| 18 | 28  |
| 36 | 46  |
| 46 | 56  |
| 48 | 58  |

- A. Subtract 10
- B. Add 10
- C. Subtract 13
- D. Add 13

8)

| In | Out |
|----|-----|
| 20 | 13  |
| 31 | 24  |
| 38 | 31  |
| 44 | 37  |
| 54 | 47  |

- A. Subtract 10
- B. Add 10
- C. Add 7
- D. Subtract 7

9)

| Input | Output |
|-------|--------|
| 21    | 11     |
| 28    | 18     |
| 30    | 20     |
| 31    | 21     |
| 45    | 35     |

- A. Add 10
- B. Subtract 8
- C. Subtract 10
- D. Subtract 13

**Answers**

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 13    | 17     |
| 20    | 24     |
| 22    | 26     |
| 41    | 45     |
| 42    | 46     |

- A. Subtract 4
- B. Subtract 5
- C. Add 4
- D. Add 5

2)

| Input | Output |
|-------|--------|
| 14    | 20     |
| 28    | 34     |
| 37    | 43     |
| 42    | 48     |
| 50    | 56     |

- A. Subtract 6
- B. Add 6
- C. Add 8
- D. Add 5

3)

| Input | Output |
|-------|--------|
| 25    | 14     |
| 42    | 31     |
| 42    | 31     |
| 50    | 39     |
| 59    | 48     |

- A. Subtract 8
- B. Subtract 14
- C. Subtract 11
- D. Add 11

4)

| In | Out |
|----|-----|
| 26 | 16  |
| 32 | 22  |
| 44 | 34  |
| 48 | 38  |
| 55 | 45  |

- A. Subtract 11
- B. Add 10
- C. Add 11
- D. Subtract 10

5)

| Input | Output |
|-------|--------|
| 10    | 19     |
| 22    | 31     |
| 23    | 32     |
| 24    | 33     |
| 46    | 55     |

- A. Add 9
- B. Subtract 10
- C. Add 10
- D. Add 6

6)

| In | Out |
|----|-----|
| 17 | 30  |
| 24 | 37  |
| 31 | 44  |
| 40 | 53  |
| 41 | 54  |

- A. Add 15
- B. Subtract 13
- C. Subtract 15
- D. Add 13

7)

| In | Out |
|----|-----|
| 15 | 25  |
| 18 | 28  |
| 36 | 46  |
| 46 | 56  |
| 48 | 58  |

- A. Subtract 10
- B. Add 10
- C. Subtract 13
- D. Add 13

8)

| In | Out |
|----|-----|
| 20 | 13  |
| 31 | 24  |
| 38 | 31  |
| 44 | 37  |
| 54 | 47  |

- A. Subtract 10
- B. Add 10
- C. Add 7
- D. Subtract 7

9)

| Input | Output |
|-------|--------|
| 21    | 11     |
| 28    | 18     |
| 30    | 20     |
| 31    | 21     |
| 45    | 35     |

- A. Add 10
- B. Subtract 8
- C. Subtract 10
- D. Subtract 13

**Answers**

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 23    | 16     |
| 28    | 21     |
| 34    | 27     |
| 39    | 32     |
| 41    | 34     |

- A. Subtract 10
- B. Subtract 7
- C. Subtract 5
- D. Add 10

2)

| Input | Output |
|-------|--------|
| 10    | 25     |
| 12    | 27     |
| 23    | 38     |
| 41    | 56     |
| 44    | 59     |

- A. Add 13
- B. Add 15
- C. Add 16
- D. Subtract 15

3)

| In | Out |
|----|-----|
| 24 | 14  |
| 25 | 15  |
| 27 | 17  |
| 30 | 20  |
| 42 | 32  |

- A. Add 11
- B. Add 10
- C. Subtract 11
- D. Subtract 10

4)

| Input | Output |
|-------|--------|
| 18    | 14     |
| 20    | 16     |
| 23    | 19     |
| 38    | 34     |
| 53    | 49     |

- A. Subtract 2
- B. Subtract 5
- C. Add 4
- D. Subtract 4

5)

| Input | Output |
|-------|--------|
| 33    | 21     |
| 46    | 34     |
| 46    | 34     |
| 55    | 43     |
| 60    | 48     |

- A. Add 12
- B. Add 13
- C. Subtract 12
- D. Subtract 10

6)

| In | Out |
|----|-----|
| 17 | 21  |
| 25 | 29  |
| 34 | 38  |
| 44 | 48  |
| 47 | 51  |

- A. Add 4
- B. Subtract 5
- C. Add 5
- D. Add 1

7)

| Input | Output |
|-------|--------|
| 29    | 20     |
| 42    | 33     |
| 47    | 38     |
| 48    | 39     |
| 58    | 49     |

- A. Subtract 8
- B. Subtract 12
- C. Subtract 9
- D. Add 12

8)

| Input | Output |
|-------|--------|
| 14    | 29     |
| 24    | 39     |
| 25    | 40     |
| 31    | 46     |
| 44    | 59     |

- A. Add 15
- B. Subtract 15
- C. Add 16
- D. Add 14

9)

| Input | Output |
|-------|--------|
| 24    | 20     |
| 25    | 21     |
| 39    | 35     |
| 44    | 40     |
| 54    | 50     |

- A. Add 4
- B. Add 5
- C. Subtract 2
- D. Subtract 4

Answers

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 23    | 16     |
| 28    | 21     |
| 34    | 27     |
| 39    | 32     |
| 41    | 34     |

- A. Subtract 10
- B. Subtract 7
- C. Subtract 5
- D. Add 10

2)

| Input | Output |
|-------|--------|
| 10    | 25     |
| 12    | 27     |
| 23    | 38     |
| 41    | 56     |
| 44    | 59     |

- A. Add 13
- B. Add 15
- C. Add 16
- D. Subtract 15

3)

| In | Out |
|----|-----|
| 24 | 14  |
| 25 | 15  |
| 27 | 17  |
| 30 | 20  |
| 42 | 32  |

- A. Add 11
- B. Add 10
- C. Subtract 11
- D. Subtract 10

4)

| Input | Output |
|-------|--------|
| 18    | 14     |
| 20    | 16     |
| 23    | 19     |
| 38    | 34     |
| 53    | 49     |

- A. Subtract 2
- B. Subtract 5
- C. Add 4
- D. Subtract 4

5)

| Input | Output |
|-------|--------|
| 33    | 21     |
| 46    | 34     |
| 46    | 34     |
| 55    | 43     |
| 60    | 48     |

- A. Add 12
- B. Add 13
- C. Subtract 12
- D. Subtract 10

6)

| In | Out |
|----|-----|
| 17 | 21  |
| 25 | 29  |
| 34 | 38  |
| 44 | 48  |
| 47 | 51  |

- A. Add 4
- B. Subtract 5
- C. Add 5
- D. Add 1

7)

| Input | Output |
|-------|--------|
| 29    | 20     |
| 42    | 33     |
| 47    | 38     |
| 48    | 39     |
| 58    | 49     |

- A. Subtract 8
- B. Subtract 12
- C. Subtract 9
- D. Add 12

8)

| Input | Output |
|-------|--------|
| 14    | 29     |
| 24    | 39     |
| 25    | 40     |
| 31    | 46     |
| 44    | 59     |

- A. Add 15
- B. Subtract 15
- C. Add 16
- D. Add 14

9)

| Input | Output |
|-------|--------|
| 24    | 20     |
| 25    | 21     |
| 39    | 35     |
| 44    | 40     |
| 54    | 50     |

- A. Add 4
- B. Add 5
- C. Subtract 2
- D. Subtract 4

Answers

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 13    | 21     |
| 17    | 25     |
| 22    | 30     |
| 34    | 42     |
| 41    | 49     |

- A. Add 8
- B. Subtract 8
- C. Add 7
- D. Add 11

2)

| In | Out |
|----|-----|
| 24 | 10  |
| 33 | 19  |
| 53 | 39  |
| 56 | 42  |
| 60 | 46  |

- A. Subtract 14
- B. Subtract 15
- C. Add 15
- D. Add 14

3)

| Input | Output |
|-------|--------|
| 22    | 28     |
| 25    | 31     |
| 28    | 34     |
| 44    | 50     |
| 46    | 52     |

- A. Add 7
- B. Add 6
- C. Subtract 6
- D. Subtract 7

4)

| In | Out |
|----|-----|
| 15 | 19  |
| 25 | 29  |
| 26 | 30  |
| 41 | 45  |
| 44 | 48  |

- A. Add 6
- B. Subtract 6
- C. Subtract 4
- D. Add 4

5)

| In | Out |
|----|-----|
| 18 | 13  |
| 30 | 25  |
| 38 | 33  |
| 47 | 42  |
| 49 | 44  |

- A. Subtract 6
- B. Subtract 5
- C. Add 5
- D. Subtract 3

6)

| Input | Output |
|-------|--------|
| 10    | 23     |
| 24    | 37     |
| 42    | 55     |
| 44    | 57     |
| 45    | 58     |

- A. Add 13
- B. Add 14
- C. Subtract 14
- D. Subtract 13

7)

| Input | Output |
|-------|--------|
| 12    | 21     |
| 21    | 30     |
| 22    | 31     |
| 27    | 36     |
| 32    | 41     |

- A. Add 7
- B. Add 9
- C. Add 11
- D. Subtract 11

8)

| Input | Output |
|-------|--------|
| 19    | 15     |
| 26    | 22     |
| 46    | 42     |
| 47    | 43     |
| 49    | 45     |

- A. Subtract 4
- B. Add 7
- C. Subtract 1
- D. Add 4

9)

| Input | Output |
|-------|--------|
| 29    | 25     |
| 30    | 26     |
| 35    | 31     |
| 45    | 41     |
| 53    | 49     |

- A. Subtract 5
- B. Subtract 4
- C. Subtract 2
- D. Add 5

Answers

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 13    | 21     |
| 17    | 25     |
| 22    | 30     |
| 34    | 42     |
| 41    | 49     |

- A. Add 8
- B. Subtract 8
- C. Add 7
- D. Add 11

2)

| In | Out |
|----|-----|
| 24 | 10  |
| 33 | 19  |
| 53 | 39  |
| 56 | 42  |
| 60 | 46  |

- A. Subtract 14
- B. Subtract 15
- C. Add 15
- D. Add 14

3)

| Input | Output |
|-------|--------|
| 22    | 28     |
| 25    | 31     |
| 28    | 34     |
| 44    | 50     |
| 46    | 52     |

- A. Add 7
- B. Add 6
- C. Subtract 6
- D. Subtract 7

4)

| In | Out |
|----|-----|
| 15 | 19  |
| 25 | 29  |
| 26 | 30  |
| 41 | 45  |
| 44 | 48  |

- A. Add 6
- B. Subtract 6
- C. Subtract 4
- D. Add 4

5)

| In | Out |
|----|-----|
| 18 | 13  |
| 30 | 25  |
| 38 | 33  |
| 47 | 42  |
| 49 | 44  |

- A. Subtract 6
- B. Subtract 5
- C. Add 5
- D. Subtract 3

6)

| Input | Output |
|-------|--------|
| 10    | 23     |
| 24    | 37     |
| 42    | 55     |
| 44    | 57     |
| 45    | 58     |

- A. Add 13
- B. Add 14
- C. Subtract 14
- D. Subtract 13

7)

| Input | Output |
|-------|--------|
| 12    | 21     |
| 21    | 30     |
| 22    | 31     |
| 27    | 36     |
| 32    | 41     |

- A. Add 7
- B. Add 9
- C. Add 11
- D. Subtract 11

8)

| Input | Output |
|-------|--------|
| 19    | 15     |
| 26    | 22     |
| 46    | 42     |
| 47    | 43     |
| 49    | 45     |

- A. Subtract 4
- B. Add 7
- C. Subtract 1
- D. Add 4

9)

| Input | Output |
|-------|--------|
| 29    | 25     |
| 30    | 26     |
| 35    | 31     |
| 45    | 41     |
| 53    | 49     |

- A. Subtract 5
- B. Subtract 4
- C. Subtract 2
- D. Add 5

Answers

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



Determine what rule the function machine is using.

**Answers**

1)

| In | Out |
|----|-----|
| 29 | 34  |
| 35 | 40  |
| 37 | 42  |
| 39 | 44  |
| 49 | 54  |

- A. Subtract 6
- B. Add 5
- C. Add 2
- D. Subtract 5

2)

| Input | Output |
|-------|--------|
| 33    | 19     |
| 36    | 22     |
| 43    | 29     |
| 51    | 37     |
| 57    | 43     |

- A. Add 14
- B. Subtract 14
- C. Subtract 17
- D. Subtract 13

3)

| Input | Output |
|-------|--------|
| 22    | 11     |
| 22    | 11     |
| 33    | 22     |
| 34    | 23     |
| 61    | 50     |

- A. Subtract 13
- B. Subtract 10
- C. Add 13
- D. Subtract 11

4)

| Input | Output |
|-------|--------|
| 31    | 42     |
| 35    | 46     |
| 41    | 52     |
| 43    | 54     |
| 45    | 56     |

- A. Add 11
- B. Subtract 11
- C. Subtract 13
- D. Add 10

5)

| In | Out |
|----|-----|
| 29 | 19  |
| 44 | 34  |
| 48 | 38  |
| 55 | 45  |
| 60 | 50  |

- A. Add 10
- B. Subtract 8
- C. Subtract 10
- D. Subtract 11

6)

| Input | Output |
|-------|--------|
| 34    | 22     |
| 40    | 28     |
| 46    | 34     |
| 48    | 36     |
| 58    | 46     |

- A. Subtract 9
- B. Add 15
- C. Subtract 12
- D. Add 12

7)

| Input | Output |
|-------|--------|
| 16    | 10     |
| 31    | 25     |
| 37    | 31     |
| 38    | 32     |
| 40    | 34     |

- A. Subtract 9
- B. Add 6
- C. Subtract 6
- D. Add 9

8)

| Input | Output |
|-------|--------|
| 24    | 10     |
| 30    | 16     |
| 31    | 17     |
| 33    | 19     |
| 55    | 41     |

- A. Add 17
- B. Subtract 17
- C. Add 14
- D. Subtract 14

9)

| In | Out |
|----|-----|
| 28 | 40  |
| 28 | 40  |
| 32 | 44  |
| 41 | 53  |
| 46 | 58  |

- A. Add 10
- B. Add 12
- C. Add 13
- D. Subtract 12

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



Determine what rule the function machine is using.

1)

| In | Out |
|----|-----|
| 29 | 34  |
| 35 | 40  |
| 37 | 42  |
| 39 | 44  |
| 49 | 54  |

- A. Subtract 6
- B. Add 5
- C. Add 2
- D. Subtract 5

2)

| Input | Output |
|-------|--------|
| 33    | 19     |
| 36    | 22     |
| 43    | 29     |
| 51    | 37     |
| 57    | 43     |

- A. Add 14
- B. Subtract 14
- C. Subtract 17
- D. Subtract 13

3)

| Input | Output |
|-------|--------|
| 22    | 11     |
| 22    | 11     |
| 33    | 22     |
| 34    | 23     |
| 61    | 50     |

- A. Subtract 13
- B. Subtract 10
- C. Add 13
- D. Subtract 11

4)

| Input | Output |
|-------|--------|
| 31    | 42     |
| 35    | 46     |
| 41    | 52     |
| 43    | 54     |
| 45    | 56     |

- A. Add 11
- B. Subtract 11
- C. Subtract 13
- D. Add 10

5)

| In | Out |
|----|-----|
| 29 | 19  |
| 44 | 34  |
| 48 | 38  |
| 55 | 45  |
| 60 | 50  |

- A. Add 10
- B. Subtract 8
- C. Subtract 10
- D. Subtract 11

6)

| Input | Output |
|-------|--------|
| 34    | 22     |
| 40    | 28     |
| 46    | 34     |
| 48    | 36     |
| 58    | 46     |

- A. Subtract 9
- B. Add 15
- C. Subtract 12
- D. Add 12

7)

| Input | Output |
|-------|--------|
| 16    | 10     |
| 31    | 25     |
| 37    | 31     |
| 38    | 32     |
| 40    | 34     |

- A. Subtract 9
- B. Add 6
- C. Subtract 6
- D. Add 9

8)

| Input | Output |
|-------|--------|
| 24    | 10     |
| 30    | 16     |
| 31    | 17     |
| 33    | 19     |
| 55    | 41     |

- A. Add 17
- B. Subtract 17
- C. Add 14
- D. Subtract 14

9)

| In | Out |
|----|-----|
| 28 | 40  |
| 28 | 40  |
| 32 | 44  |
| 41 | 53  |
| 46 | 58  |

- A. Add 10
- B. Add 12
- C. Add 13
- D. Subtract 12

Answers

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





Determine what rule the function machine is using.

1)

| In | Out |
|----|-----|
| 14 | 28  |
| 19 | 33  |
| 40 | 54  |
| 46 | 60  |
| 49 | 63  |

- A. Add 14
- B. Add 11
- C. Subtract 17
- D. Subtract 14

2)

| In | Out |
|----|-----|
| 24 | 34  |
| 39 | 49  |
| 41 | 51  |
| 42 | 52  |
| 49 | 59  |

- A. Add 10
- B. Add 8
- C. Subtract 12
- D. Subtract 10

3)

| Input | Output |
|-------|--------|
| 25    | 14     |
| 32    | 21     |
| 39    | 28     |
| 42    | 31     |
| 58    | 47     |

- A. Subtract 11
- B. Subtract 9
- C. Add 11
- D. Add 14

4)

| Input | Output |
|-------|--------|
| 17    | 21     |
| 29    | 33     |
| 34    | 38     |
| 34    | 38     |
| 43    | 47     |

- A. Subtract 4
- B. Add 1
- C. Add 4
- D. Add 6

5)

| In | Out |
|----|-----|
| 37 | 31  |
| 40 | 34  |
| 44 | 38  |
| 55 | 49  |
| 56 | 50  |

- A. Subtract 5
- B. Subtract 7
- C. Add 6
- D. Subtract 6

6)

| In | Out |
|----|-----|
| 16 | 30  |
| 36 | 50  |
| 43 | 57  |
| 45 | 59  |
| 48 | 62  |

- A. Subtract 17
- B. Add 17
- C. Add 11
- D. Add 14

7)

| Input | Output |
|-------|--------|
| 29    | 38     |
| 31    | 40     |
| 33    | 42     |
| 40    | 49     |
| 50    | 59     |

- A. Subtract 9
- B. Add 11
- C. Subtract 11
- D. Add 9

8)

| In | Out |
|----|-----|
| 16 | 31  |
| 21 | 36  |
| 27 | 42  |
| 30 | 45  |
| 32 | 47  |

- A. Subtract 17
- B. Add 15
- C. Add 13
- D. Subtract 15

9)

| Input | Output |
|-------|--------|
| 20    | 14     |
| 26    | 20     |
| 32    | 26     |
| 37    | 31     |
| 46    | 40     |

- A. Subtract 6
- B. Subtract 8
- C. Add 8
- D. Subtract 5

Answers

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



Determine what rule the function machine is using.

1)

| In | Out |
|----|-----|
| 14 | 28  |
| 19 | 33  |
| 40 | 54  |
| 46 | 60  |
| 49 | 63  |

- A. Add 14
- B. Add 11
- C. Subtract 17
- D. Subtract 14

2)

| In | Out |
|----|-----|
| 24 | 34  |
| 39 | 49  |
| 41 | 51  |
| 42 | 52  |
| 49 | 59  |

- A. Add 10
- B. Add 8
- C. Subtract 12
- D. Subtract 10

3)

| Input | Output |
|-------|--------|
| 25    | 14     |
| 32    | 21     |
| 39    | 28     |
| 42    | 31     |
| 58    | 47     |

- A. Subtract 11
- B. Subtract 9
- C. Add 11
- D. Add 14

4)

| Input | Output |
|-------|--------|
| 17    | 21     |
| 29    | 33     |
| 34    | 38     |
| 34    | 38     |
| 43    | 47     |

- A. Subtract 4
- B. Add 1
- C. Add 4
- D. Add 6

5)

| In | Out |
|----|-----|
| 37 | 31  |
| 40 | 34  |
| 44 | 38  |
| 55 | 49  |
| 56 | 50  |

- A. Subtract 5
- B. Subtract 7
- C. Add 6
- D. Subtract 6

6)

| In | Out |
|----|-----|
| 16 | 30  |
| 36 | 50  |
| 43 | 57  |
| 45 | 59  |
| 48 | 62  |

- A. Subtract 17
- B. Add 17
- C. Add 11
- D. Add 14

7)

| Input | Output |
|-------|--------|
| 29    | 38     |
| 31    | 40     |
| 33    | 42     |
| 40    | 49     |
| 50    | 59     |

- A. Subtract 9
- B. Add 11
- C. Subtract 11
- D. Add 9

8)

| In | Out |
|----|-----|
| 16 | 31  |
| 21 | 36  |
| 27 | 42  |
| 30 | 45  |
| 32 | 47  |

- A. Subtract 17
- B. Add 15
- C. Add 13
- D. Subtract 15

9)

| Input | Output |
|-------|--------|
| 20    | 14     |
| 26    | 20     |
| 32    | 26     |
| 37    | 31     |
| 46    | 40     |

- A. Subtract 6
- B. Subtract 8
- C. Add 8
- D. Subtract 5

Answers

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 32    | 18     |
| 40    | 26     |
| 41    | 27     |
| 50    | 36     |
| 51    | 37     |

- A. Subtract 15
- B. Add 14
- C. Subtract 14
- D. Add 15

2)

| Input | Output |
|-------|--------|
| 23    | 15     |
| 24    | 16     |
| 28    | 20     |
| 33    | 25     |
| 50    | 42     |

- A. Add 10
- B. Subtract 10
- C. Add 8
- D. Subtract 8

3)

| In | Out |
|----|-----|
| 30 | 19  |
| 41 | 30  |
| 46 | 35  |
| 53 | 42  |
| 56 | 45  |

- A. Subtract 11
- B. Subtract 13
- C. Subtract 9
- D. Add 11

4)

| In | Out |
|----|-----|
| 24 | 12  |
| 27 | 15  |
| 29 | 17  |
| 33 | 21  |
| 46 | 34  |

- A. Subtract 9
- B. Subtract 13
- C. Add 13
- D. Subtract 12

5)

| In | Out |
|----|-----|
| 25 | 21  |
| 26 | 22  |
| 28 | 24  |
| 37 | 33  |
| 45 | 41  |

- A. Subtract 5
- B. Subtract 1
- C. Subtract 4
- D. Add 5

6)

| Input | Output |
|-------|--------|
| 22    | 10     |
| 31    | 19     |
| 47    | 35     |
| 55    | 43     |
| 57    | 45     |

- A. Add 12
- B. Subtract 12
- C. Add 13
- D. Subtract 13

7)

| Input | Output |
|-------|--------|
| 12    | 27     |
| 20    | 35     |
| 23    | 38     |
| 30    | 45     |
| 44    | 59     |

- A. Add 15
- B. Subtract 15
- C. Add 17
- D. Add 14

8)

| Input | Output |
|-------|--------|
| 19    | 33     |
| 28    | 42     |
| 29    | 43     |
| 30    | 44     |
| 45    | 59     |

- A. Add 17
- B. Subtract 14
- C. Subtract 17
- D. Add 14

9)

| In | Out |
|----|-----|
| 10 | 22  |
| 25 | 37  |
| 34 | 46  |
| 40 | 52  |
| 49 | 61  |

- A. Add 15
- B. Add 12
- C. Subtract 15
- D. Add 9

**Answers**

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 32    | 18     |
| 40    | 26     |
| 41    | 27     |
| 50    | 36     |
| 51    | 37     |

- A. Subtract 15
- B. Add 14
- C. Subtract 14
- D. Add 15

2)

| Input | Output |
|-------|--------|
| 23    | 15     |
| 24    | 16     |
| 28    | 20     |
| 33    | 25     |
| 50    | 42     |

- A. Add 10
- B. Subtract 10
- C. Add 8
- D. Subtract 8

3)

| In | Out |
|----|-----|
| 30 | 19  |
| 41 | 30  |
| 46 | 35  |
| 53 | 42  |
| 56 | 45  |

- A. Subtract 11
- B. Subtract 13
- C. Subtract 9
- D. Add 11

4)

| In | Out |
|----|-----|
| 24 | 12  |
| 27 | 15  |
| 29 | 17  |
| 33 | 21  |
| 46 | 34  |

- A. Subtract 9
- B. Subtract 13
- C. Add 13
- D. Subtract 12

5)

| In | Out |
|----|-----|
| 25 | 21  |
| 26 | 22  |
| 28 | 24  |
| 37 | 33  |
| 45 | 41  |

- A. Subtract 5
- B. Subtract 1
- C. Subtract 4
- D. Add 5

6)

| Input | Output |
|-------|--------|
| 22    | 10     |
| 31    | 19     |
| 47    | 35     |
| 55    | 43     |
| 57    | 45     |

- A. Add 12
- B. Subtract 12
- C. Add 13
- D. Subtract 13

7)

| Input | Output |
|-------|--------|
| 12    | 27     |
| 20    | 35     |
| 23    | 38     |
| 30    | 45     |
| 44    | 59     |

- A. Add 15
- B. Subtract 15
- C. Add 17
- D. Add 14

8)

| Input | Output |
|-------|--------|
| 19    | 33     |
| 28    | 42     |
| 29    | 43     |
| 30    | 44     |
| 45    | 59     |

- A. Add 17
- B. Subtract 14
- C. Subtract 17
- D. Add 14

9)

| In | Out |
|----|-----|
| 10 | 22  |
| 25 | 37  |
| 34 | 46  |
| 40 | 52  |
| 49 | 61  |

- A. Add 15
- B. Add 12
- C. Subtract 15
- D. Add 9

Answers

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 17    | 21     |
| 26    | 30     |
| 33    | 37     |
| 46    | 50     |
| 49    | 53     |

- A. Add 4
- B. Add 7
- C. Add 2
- D. Subtract 7

2)

| In | Out |
|----|-----|
| 22 | 33  |
| 36 | 47  |
| 37 | 48  |
| 38 | 49  |
| 41 | 52  |

- A. Add 11
- B. Add 8
- C. Subtract 13
- D. Subtract 11

3)

| Input | Output |
|-------|--------|
| 11    | 18     |
| 17    | 24     |
| 31    | 38     |
| 46    | 53     |
| 49    | 56     |

- A. Subtract 7
- B. Add 7
- C. Add 9
- D. Subtract 9

4)

| Input | Output |
|-------|--------|
| 19    | 27     |
| 27    | 35     |
| 33    | 41     |
| 46    | 54     |
| 49    | 57     |

- A. Add 7
- B. Subtract 10
- C. Subtract 8
- D. Add 8

5)

| In | Out |
|----|-----|
| 28 | 16  |
| 32 | 20  |
| 39 | 27  |
| 50 | 38  |
| 56 | 44  |

- A. Add 12
- B. Add 14
- C. Subtract 12
- D. Subtract 10

6)

| In | Out |
|----|-----|
| 24 | 15  |
| 30 | 21  |
| 33 | 24  |
| 41 | 32  |
| 43 | 34  |

- A. Subtract 9
- B. Add 10
- C. Subtract 10
- D. Add 9

7)

| In | Out |
|----|-----|
| 16 | 28  |
| 20 | 32  |
| 28 | 40  |
| 35 | 47  |
| 38 | 50  |

- A. Add 11
- B. Add 15
- C. Add 12
- D. Subtract 12

8)

| Input | Output |
|-------|--------|
| 21    | 11     |
| 24    | 14     |
| 28    | 18     |
| 39    | 29     |
| 51    | 41     |

- A. Subtract 8
- B. Add 10
- C. Subtract 10
- D. Subtract 13

9)

| In | Out |
|----|-----|
| 23 | 34  |
| 37 | 48  |
| 46 | 57  |
| 47 | 58  |
| 50 | 61  |

- A. Add 11
- B. Subtract 11
- C. Add 8
- D. Subtract 13

**Answers**

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 17    | 21     |
| 26    | 30     |
| 33    | 37     |
| 46    | 50     |
| 49    | 53     |

- A. Add 4
- B. Add 7
- C. Add 2
- D. Subtract 7

2)

| In | Out |
|----|-----|
| 22 | 33  |
| 36 | 47  |
| 37 | 48  |
| 38 | 49  |
| 41 | 52  |

- A. Add 11
- B. Add 8
- C. Subtract 13
- D. Subtract 11

3)

| Input | Output |
|-------|--------|
| 11    | 18     |
| 17    | 24     |
| 31    | 38     |
| 46    | 53     |
| 49    | 56     |

- A. Subtract 7
- B. Add 7
- C. Add 9
- D. Subtract 9

4)

| Input | Output |
|-------|--------|
| 19    | 27     |
| 27    | 35     |
| 33    | 41     |
| 46    | 54     |
| 49    | 57     |

- A. Add 7
- B. Subtract 10
- C. Subtract 8
- D. Add 8

5)

| In | Out |
|----|-----|
| 28 | 16  |
| 32 | 20  |
| 39 | 27  |
| 50 | 38  |
| 56 | 44  |

- A. Add 12
- B. Add 14
- C. Subtract 12
- D. Subtract 10

6)

| In | Out |
|----|-----|
| 24 | 15  |
| 30 | 21  |
| 33 | 24  |
| 41 | 32  |
| 43 | 34  |

- A. Subtract 9
- B. Add 10
- C. Subtract 10
- D. Add 9

7)

| In | Out |
|----|-----|
| 16 | 28  |
| 20 | 32  |
| 28 | 40  |
| 35 | 47  |
| 38 | 50  |

- A. Add 11
- B. Add 15
- C. Add 12
- D. Subtract 12

8)

| Input | Output |
|-------|--------|
| 21    | 11     |
| 24    | 14     |
| 28    | 18     |
| 39    | 29     |
| 51    | 41     |

- A. Subtract 8
- B. Add 10
- C. Subtract 10
- D. Subtract 13

9)

| In | Out |
|----|-----|
| 23 | 34  |
| 37 | 48  |
| 46 | 57  |
| 47 | 58  |
| 50 | 61  |

- A. Add 11
- B. Subtract 11
- C. Add 8
- D. Subtract 13

Answers

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 26    | 22     |
| 27    | 23     |
| 28    | 24     |
| 40    | 36     |
| 44    | 40     |

- A. Add 6
- B. Add 4
- C. Subtract 6
- D. Subtract 4

2)

| In | Out |
|----|-----|
| 27 | 14  |
| 28 | 15  |
| 44 | 31  |
| 48 | 35  |
| 57 | 44  |

- A. Subtract 13
- B. Subtract 11
- C. Add 13
- D. Subtract 15

3)

| In | Out |
|----|-----|
| 19 | 10  |
| 45 | 36  |
| 52 | 43  |
| 54 | 45  |
| 57 | 48  |

- A. Subtract 12
- B. Subtract 8
- C. Add 9
- D. Subtract 9

4)

| Input | Output |
|-------|--------|
| 24    | 18     |
| 34    | 28     |
| 34    | 28     |
| 35    | 29     |
| 54    | 48     |

- A. Subtract 4
- B. Subtract 8
- C. Subtract 6
- D. Add 8

5)

| Input | Output |
|-------|--------|
| 10    | 16     |
| 14    | 20     |
| 22    | 28     |
| 25    | 31     |
| 32    | 38     |

- A. Add 6
- B. Subtract 9
- C. Subtract 6
- D. Add 9

6)

| Input | Output |
|-------|--------|
| 27    | 22     |
| 27    | 22     |
| 48    | 43     |
| 53    | 48     |
| 55    | 50     |

- A. Add 5
- B. Add 7
- C. Subtract 4
- D. Subtract 5

7)

| In | Out |
|----|-----|
| 30 | 17  |
| 36 | 23  |
| 37 | 24  |
| 48 | 35  |
| 55 | 42  |

- A. Subtract 11
- B. Add 13
- C. Subtract 16
- D. Subtract 13

8)

| Input | Output |
|-------|--------|
| 26    | 18     |
| 30    | 22     |
| 52    | 44     |
| 53    | 45     |
| 57    | 49     |

- A. Add 8
- B. Add 9
- C. Subtract 6
- D. Subtract 8

9)

| Input | Output |
|-------|--------|
| 25    | 33     |
| 28    | 36     |
| 36    | 44     |
| 38    | 46     |
| 39    | 47     |

- A. Subtract 8
- B. Add 8
- C. Add 11
- D. Subtract 11

Answers

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 26    | 22     |
| 27    | 23     |
| 28    | 24     |
| 40    | 36     |
| 44    | 40     |

- A. Add 6
- B. Add 4
- C. Subtract 6
- D. Subtract 4

2)

| In | Out |
|----|-----|
| 27 | 14  |
| 28 | 15  |
| 44 | 31  |
| 48 | 35  |
| 57 | 44  |

- A. Subtract 13
- B. Subtract 11
- C. Add 13
- D. Subtract 15

3)

| In | Out |
|----|-----|
| 19 | 10  |
| 45 | 36  |
| 52 | 43  |
| 54 | 45  |
| 57 | 48  |

- A. Subtract 12
- B. Subtract 8
- C. Add 9
- D. Subtract 9

4)

| Input | Output |
|-------|--------|
| 24    | 18     |
| 34    | 28     |
| 34    | 28     |
| 35    | 29     |
| 54    | 48     |

- A. Subtract 4
- B. Subtract 8
- C. Subtract 6
- D. Add 8

5)

| Input | Output |
|-------|--------|
| 10    | 16     |
| 14    | 20     |
| 22    | 28     |
| 25    | 31     |
| 32    | 38     |

- A. Add 6
- B. Subtract 9
- C. Subtract 6
- D. Add 9

6)

| Input | Output |
|-------|--------|
| 27    | 22     |
| 27    | 22     |
| 48    | 43     |
| 53    | 48     |
| 55    | 50     |

- A. Add 5
- B. Add 7
- C. Subtract 4
- D. Subtract 5

7)

| In | Out |
|----|-----|
| 30 | 17  |
| 36 | 23  |
| 37 | 24  |
| 48 | 35  |
| 55 | 42  |

- A. Subtract 11
- B. Add 13
- C. Subtract 16
- D. Subtract 13

8)

| Input | Output |
|-------|--------|
| 26    | 18     |
| 30    | 22     |
| 52    | 44     |
| 53    | 45     |
| 57    | 49     |

- A. Add 8
- B. Add 9
- C. Subtract 6
- D. Subtract 8

9)

| Input | Output |
|-------|--------|
| 25    | 33     |
| 28    | 36     |
| 36    | 44     |
| 38    | 46     |
| 39    | 47     |

- A. Subtract 8
- B. Add 8
- C. Add 11
- D. Subtract 11

Answers

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





Determine what rule the function machine is using.

**Answers**

1)

| Input | Output |
|-------|--------|
| 25    | 12     |
| 30    | 17     |
| 35    | 22     |
| 45    | 32     |
| 52    | 39     |

- A. Subtract 13
- B. Add 16
- C. Subtract 16
- D. Subtract 11

2)

| In | Out |
|----|-----|
| 15 | 11  |
| 23 | 19  |
| 34 | 30  |
| 38 | 34  |
| 45 | 41  |

- A. Subtract 5
- B. Subtract 4
- C. Subtract 2
- D. Add 4

3)

| In | Out |
|----|-----|
| 33 | 20  |
| 34 | 21  |
| 37 | 24  |
| 40 | 27  |
| 59 | 46  |

- A. Subtract 10
- B. Subtract 15
- C. Add 13
- D. Subtract 13

4)

| In | Out |
|----|-----|
| 18 | 13  |
| 26 | 21  |
| 32 | 27  |
| 36 | 31  |
| 40 | 35  |

- A. Add 5
- B. Add 7
- C. Subtract 5
- D. Subtract 7

5)

| Input | Output |
|-------|--------|
| 20    | 25     |
| 22    | 27     |
| 28    | 33     |
| 29    | 34     |
| 33    | 38     |

- A. Subtract 8
- B. Add 4
- C. Add 5
- D. Add 8

6)

| In | Out |
|----|-----|
| 39 | 31  |
| 40 | 32  |
| 41 | 33  |
| 44 | 36  |
| 57 | 49  |

- A. Add 11
- B. Subtract 6
- C. Subtract 11
- D. Subtract 8

7)

| Input | Output |
|-------|--------|
| 30    | 18     |
| 41    | 29     |
| 49    | 37     |
| 51    | 39     |
| 54    | 42     |

- A. Subtract 12
- B. Add 13
- C. Subtract 11
- D. Subtract 13

8)

| In | Out |
|----|-----|
| 17 | 10  |
| 27 | 20  |
| 29 | 22  |
| 38 | 31  |
| 45 | 38  |

- A. Add 8
- B. Subtract 5
- C. Subtract 7
- D. Subtract 8

9)

| Input | Output |
|-------|--------|
| 18    | 10     |
| 23    | 15     |
| 29    | 21     |
| 30    | 22     |
| 40    | 32     |

- A. Add 8
- B. Subtract 10
- C. Subtract 8
- D. Subtract 5

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 25    | 12     |
| 30    | 17     |
| 35    | 22     |
| 45    | 32     |
| 52    | 39     |

- A. Subtract 13
- B. Add 16
- C. Subtract 16
- D. Subtract 11

2)

| In | Out |
|----|-----|
| 15 | 11  |
| 23 | 19  |
| 34 | 30  |
| 38 | 34  |
| 45 | 41  |

- A. Subtract 5
- B. Subtract 4
- C. Subtract 2
- D. Add 4

3)

| In | Out |
|----|-----|
| 33 | 20  |
| 34 | 21  |
| 37 | 24  |
| 40 | 27  |
| 59 | 46  |

- A. Subtract 10
- B. Subtract 15
- C. Add 13
- D. Subtract 13

4)

| In | Out |
|----|-----|
| 18 | 13  |
| 26 | 21  |
| 32 | 27  |
| 36 | 31  |
| 40 | 35  |

- A. Add 5
- B. Add 7
- C. Subtract 5
- D. Subtract 7

5)

| Input | Output |
|-------|--------|
| 20    | 25     |
| 22    | 27     |
| 28    | 33     |
| 29    | 34     |
| 33    | 38     |

- A. Subtract 8
- B. Add 4
- C. Add 5
- D. Add 8

6)

| In | Out |
|----|-----|
| 39 | 31  |
| 40 | 32  |
| 41 | 33  |
| 44 | 36  |
| 57 | 49  |

- A. Add 11
- B. Subtract 6
- C. Subtract 11
- D. Subtract 8

7)

| Input | Output |
|-------|--------|
| 30    | 18     |
| 41    | 29     |
| 49    | 37     |
| 51    | 39     |
| 54    | 42     |

- A. Subtract 12
- B. Add 13
- C. Subtract 11
- D. Subtract 13

8)

| In | Out |
|----|-----|
| 17 | 10  |
| 27 | 20  |
| 29 | 22  |
| 38 | 31  |
| 45 | 38  |

- A. Add 8
- B. Subtract 5
- C. Subtract 7
- D. Subtract 8

9)

| Input | Output |
|-------|--------|
| 18    | 10     |
| 23    | 15     |
| 29    | 21     |
| 30    | 22     |
| 40    | 32     |

- A. Add 8
- B. Subtract 10
- C. Subtract 8
- D. Subtract 5

Answers

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 36    | 22     |
| 39    | 25     |
| 53    | 39     |
| 54    | 40     |
| 57    | 43     |

- A. Subtract 15
- B. Subtract 14
- C. Subtract 13
- D. Add 14

2)

| Input | Output |
|-------|--------|
| 27    | 16     |
| 30    | 19     |
| 43    | 32     |
| 52    | 41     |
| 55    | 44     |

- A. Subtract 9
- B. Subtract 11
- C. Subtract 14
- D. Add 11

3)

| Input | Output |
|-------|--------|
| 12    | 18     |
| 22    | 28     |
| 23    | 29     |
| 23    | 29     |
| 24    | 30     |

- A. Add 3
- B. Subtract 6
- C. Add 9
- D. Add 6

4)

| In | Out |
|----|-----|
| 15 | 11  |
| 27 | 23  |
| 31 | 27  |
| 35 | 31  |
| 36 | 32  |

- A. Subtract 4
- B. Add 4
- C. Subtract 6
- D. Subtract 3

5)

| In | Out |
|----|-----|
| 22 | 12  |
| 38 | 28  |
| 40 | 30  |
| 44 | 34  |
| 48 | 38  |

- A. Subtract 10
- B. Add 10
- C. Subtract 11
- D. Subtract 9

6)

| Input | Output |
|-------|--------|
| 24    | 32     |
| 38    | 46     |
| 38    | 46     |
| 39    | 47     |
| 45    | 53     |

- A. Add 8
- B. Add 9
- C. Add 6
- D. Subtract 9

7)

| Input | Output |
|-------|--------|
| 28    | 15     |
| 36    | 23     |
| 49    | 36     |
| 55    | 42     |
| 60    | 47     |

- A. Subtract 15
- B. Add 13
- C. Subtract 10
- D. Subtract 13

8)

| In | Out |
|----|-----|
| 17 | 10  |
| 25 | 18  |
| 27 | 20  |
| 27 | 20  |
| 49 | 42  |

- A. Add 10
- B. Subtract 7
- C. Subtract 10
- D. Subtract 4

9)

| Input | Output |
|-------|--------|
| 18    | 29     |
| 21    | 32     |
| 27    | 38     |
| 33    | 44     |
| 39    | 50     |

- A. Subtract 13
- B. Subtract 11
- C. Add 8
- D. Add 11

Answers

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



Determine what rule the function machine is using.

1)

| Input | Output |
|-------|--------|
| 36    | 22     |
| 39    | 25     |
| 53    | 39     |
| 54    | 40     |
| 57    | 43     |

- A. Subtract 15
- B. Subtract 14
- C. Subtract 13
- D. Add 14

2)

| Input | Output |
|-------|--------|
| 27    | 16     |
| 30    | 19     |
| 43    | 32     |
| 52    | 41     |
| 55    | 44     |

- A. Subtract 9
- B. Subtract 11
- C. Subtract 14
- D. Add 11

3)

| Input | Output |
|-------|--------|
| 12    | 18     |
| 22    | 28     |
| 23    | 29     |
| 23    | 29     |
| 24    | 30     |

- A. Add 3
- B. Subtract 6
- C. Add 9
- D. Add 6

4)

| In | Out |
|----|-----|
| 15 | 11  |
| 27 | 23  |
| 31 | 27  |
| 35 | 31  |
| 36 | 32  |

- A. Subtract 4
- B. Add 4
- C. Subtract 6
- D. Subtract 3

5)

| In | Out |
|----|-----|
| 22 | 12  |
| 38 | 28  |
| 40 | 30  |
| 44 | 34  |
| 48 | 38  |

- A. Subtract 10
- B. Add 10
- C. Subtract 11
- D. Subtract 9

6)

| Input | Output |
|-------|--------|
| 24    | 32     |
| 38    | 46     |
| 38    | 46     |
| 39    | 47     |
| 45    | 53     |

- A. Add 8
- B. Add 9
- C. Add 6
- D. Subtract 9

7)

| Input | Output |
|-------|--------|
| 28    | 15     |
| 36    | 23     |
| 49    | 36     |
| 55    | 42     |
| 60    | 47     |

- A. Subtract 15
- B. Add 13
- C. Subtract 10
- D. Subtract 13

8)

| In | Out |
|----|-----|
| 17 | 10  |
| 25 | 18  |
| 27 | 20  |
| 27 | 20  |
| 49 | 42  |

- A. Add 10
- B. Subtract 7
- C. Subtract 10
- D. Subtract 4

9)

| Input | Output |
|-------|--------|
| 18    | 29     |
| 21    | 32     |
| 27    | 38     |
| 33    | 44     |
| 39    | 50     |

- A. Subtract 13
- B. Subtract 11
- C. Add 8
- D. Add 11

Answers

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