



Determine what rule the function machine is using.

**Answers**

1)

| In | Out |
|----|-----|
| 31 | 18  |
| 34 | 21  |
| 47 | 34  |
| 50 | 37  |
| 57 | 44  |

- A. Add 14
- B. Add 13
- C. Subtract 11
- D. Subtract 13

2)

| Input | Output |
|-------|--------|
| 21    | 11     |
| 26    | 16     |
| 27    | 17     |
| 50    | 40     |
| 53    | 43     |

- A. Subtract 10
- B. Add 10
- C. Add 11
- D. Subtract 7

3)

| Input | Output |
|-------|--------|
| 25    | 11     |
| 37    | 23     |
| 45    | 31     |
| 59    | 45     |
| 62    | 48     |

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

4)

| In | Out |
|----|-----|
| 23 | 11  |
| 41 | 29  |
| 46 | 34  |
| 47 | 35  |
| 48 | 36  |

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

5)

| In | Out |
|----|-----|
| 20 | 12  |
| 22 | 14  |
| 34 | 26  |
| 43 | 35  |
| 49 | 41  |

- A. Subtract 9
- B. Add 8
- C. Subtract 7
- D. Subtract 8

6)

| Input | Output |
|-------|--------|
| 14    | 25     |
| 20    | 31     |
| 24    | 35     |
| 27    | 38     |
| 30    | 41     |

- A. Add 8
- B. Add 12
- C. Subtract 11
- D. Add 11

7)

| In | Out |
|----|-----|
| 20 | 12  |
| 27 | 19  |
| 38 | 30  |
| 39 | 31  |
| 44 | 36  |

- A. Subtract 10
- B. Subtract 6
- C. Subtract 8
- D. Add 10

8)

| Input | Output |
|-------|--------|
| 23    | 17     |
| 25    | 19     |
| 26    | 20     |
| 32    | 26     |
| 56    | 50     |

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

9)

| In | Out |
|----|-----|
| 10 | 25  |
| 14 | 29  |
| 18 | 33  |
| 35 | 50  |
| 39 | 54  |

- A. Add 12
- B. Subtract 18
- C. Add 18
- D. Add 15

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



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|-------|--------|
| 21    | 11     |
| 26    | 16     |
| 27    | 17     |
| 50    | 40     |
| 53    | 43     |

- A. Subtract 10
- B. Add 10
- C. Add 11
- D. Subtract 7

3)

| Input | Output |
|-------|--------|
| 25    | 11     |
| 37    | 23     |
| 45    | 31     |
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- A. Subtract 14
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4)

| In | Out |
|----|-----|
| 23 | 11  |
| 41 | 29  |
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- D. Subtract 12

5)

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8)

| Input | Output |
|-------|--------|
| 23    | 17     |
| 25    | 19     |
| 26    | 20     |
| 32    | 26     |
| 56    | 50     |

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

9)

| In | Out |
|----|-----|
| 10 | 25  |
| 14 | 29  |
| 18 | 33  |
| 35 | 50  |
| 39 | 54  |

- A. Add 12
- B. Subtract 18
- C. Add 18
- D. Add 15

**Answers**

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



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- A. Add 13
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- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_